# Mecadez Core Technologies Private Limited
## Project Management Services

### Summary of Frequencies of Field Tests and Lab Tests Conducted

**Name of the work:** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Job No:** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR

**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,

| Sl. No | Particulars of the Tests | PCC (1:3:6) | | | |
|---|---|---|---|---|---|
| | | Quantity Cum | Frequency of Tests | Tests Required | Tests Carried Out |
| I | **Cement** | 461.55 | OPC 53 Grade | | |
| 1 | Consistency test | | 1Test / Source of Supply | 1 | 1 |
| 2 | Fineness test | | 1Test / Source of Supply | 1 | 1 |
| 3 | Soundness test | | 1Test / Source of Supply | 1 | 1 |
| 4 | Compressive strength test | | | | |
| i | 7-days | | 1Test / Source of Supply | 1 | 1 |
| ii | 28-days | | 1Test / Source of Supply | 1 | 1 |
| II | **Fine Aggregates** | | | | |
| 5 | Gradation test | | 1Test / Day | 1 | 1 |
| III | **Coarse aggregates** | | | | |
| 6 | Gradation test | | 1Test / Day | 1 | 1 |
| 7 | Water absorption test | | Regular Intervals | 1 | 1 |
| 8 | Impact test | | 1Test / Source of Supply | 1 | 1 |
| IV | **Concrete** | | | | |

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

Consultant

Contractor

ASSISTANT ENGINEER

ASSISTANT EXE ENGINEER

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

# Test Report
## Consistency test

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exeecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | PCC (1:3:6) |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V. |
| **Location** | Source of Material |
| **Material** | Cement |
| **Sample No** | 1 |
| **Sample Collection Date** | 10-Sep-2022 |
| **Tested Date** | 11-Sep-2022 |

| Sl. No. | Description | Trial 1 | Trial 2 | Trial 3 | Trial 4 | Trial 4 |
|---|---|---|---|---|---|---|
| 1 | Weight of Cement | 400 | 400 | 400 | 400 | 400 |
| 2 | Percentage of water added (%) | 27 | 28.5 | 29.5 | 30 | 31 |
| 3 | Weight of Water (gm) | 108 | 114 | 118 | 120 | 124 |
| 4 | Initial Reading of Plunger (mm) | 40 | 40 | 40 | 40 | 40 |
| 5 | Difference (mm) | 22 | 19 | 17 | 13 | 5 |

**Results:** Standard Consistency of Cement: 31.00%

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technologies Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Fineness test

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Exceeutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** PCC (1:3:6)
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
**Location** Source of Material
**Material** Cement
**Sample No** 1
**Sample Collection Date** 10-Sep-2022
**Tested Date** 11-Sep-2022

| Sl. No. | Determination | Trial 1 | Trial 2 |
|---|---|---|---|
| 1 | Weight of Cement before sieve (gm) | 100 | 100 |
| 2 | Weight of residue retained on 90um sieve (gm) | 5.6 | 6.4 |
| 3 | Percentage retained (%) | 5.6 | 6.4 |
| 4 | Average Percentage retained (%) | 6.00 | |

**Results:** Residue of cement is: 6.00%

**Comments:** Maximum allowable residue by mass for ordinary portlad cement is 10%

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technologies Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Soundness test

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | PCC (1:3:6) |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (Part 3) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V. |
| **Location** | Source of Material |
| **Material** | Cement |
| **Sample No** | 1 |
| **Sample Collection Date** | 10-Sep-2022 |
| **Tested Date** | 11-Sep-2022 |

| Sl. No. | Description | Trial 1 | Trial 2 | Trial 3 |
|---|---|---|---|---|
| 1 | Initial Distance between the indicator points of Lechatelier mould | 11 | 10 | 11 |
| 2 | Final Distance between the indicator points of Lechatelier mould | 16 | 18 | 15 |
| 3 | Difference or expansion | 5 | 8 | 4 |
| 4 | Average Differences or Expansion in mm | | 5.67 | |

**Results:** Difference in Expansion of Cement: 5.67 mm
**Comments:** Maximum allowable Expansion of cement is 10mm.

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technologies Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Compressive strength test

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Exceecutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** PCC (1:3:6)
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Source of Material
**Material** Cement
**Sample No** 1
**Casting Date** 15-Sep-2022
**Tested Date** 22-Sep-2022

| Cube | Cement Grade | Age at Test (Days) | Slump (mm) | Weight (kg) | Dimension (LxWxH) | Density (kg/m3) | Max. Load (KN) | Area (mm2) | Compressive Strength (N/mm2) | Average Sample (n/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 53 | 7 | - | 0.894 | 70.6x70.6x70.6 | 2302.00 | 206 | 4984.36 | 41.33 | 41.43 |
| 2 | 53 | 7 | - | 0.852 | 70.6x70.6x70.6 | 2358.00 | 207 | 4984.36 | 41.53 | |

**Results**: 7-days Compressive strength of cement is 41.43 N/mm$^2$
**Comments**: 7 days Compressive strength of cement should not be less than 40 N/mm$^2$

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv.Any query regarding the report must be reported immediately.

**For Mecadez Core Technologies Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Compressive strength test

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exceeutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | PCC (1:3:6) |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Source of Material |
| **Material** | Cement |
| **Sample No** | 1 |
| **Casting Date** | 15-Sep-2022 |
| **Tested Date** | 13-Oct-2022 |

| Cube | Cement Grade | Age at Test (Days) | Slump (mm) | Weight (kg) | Dimension (LxWxH) | Density (kg/m3) | Max. Load (KN) | Area (mm2) | Compressive Strength (N/mm2) | Average Sample (n/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 53 | 28 | - | 0.90 | 70.6x70.6x70.6 | 2287.00 | 268.00 | 4984.36 | 53.77 | 53.37 |
| 2 | 53 | 28 | - | 0.86 | 70.6x70.6x70.6 | 2316.00 | 264.00 | 4984.36 | 52.97 | |

**Results**: 28-days Compressive strength of cement is 53.37 N/mm$^2$

**Comments**: 28-days Compressive strength of cement should not be less than53N/mm$^2$

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technologies Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Gradation test

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exceeutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | PCC (1:3:6) |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Source of Material |
| **Material** | Fine Aggregates |
| **Sample No** | 1 |
| **Sample Collection Date** | 10 Sep 2022 |
| **Tested Date** | 10 Sep 2022 |

**Weight of Sample(gram):** 200

| Sl No. | IS Sieve Size | Weight retained | % retained | % Cumulative | Cumulative % of Passing | | Remarks |
|---|---|---|---|---|---|---|---|
| | | | | | % Passing | Gradation limits | |
| 1 | 10 mm | 0.00 | 0.00 | 0.00 | 100.00 | 100 | |
| 2 | 4.75 mm | 16.25 | 8.13 | 8.13 | 91.88 | 90-100 | |
| 3 | 2.36 mm | 16.54 | 8.27 | 16.40 | 83.61 | 75-100 | Gradation satisfies the MORT&H Zone II Specification for PCC |
| 4 | 1.18 mm | 35.89 | 17.95 | 34.34 | 65.66 | 55-90 | |
| 5 | 600 µ | 48.59 | 24.30 | 58.64 | 41.37 | 35-59 | |
| 6 | 300 µ | 58.47 | 29.24 | 87.87 | 12.13 | 8 30 | |
| 7 | 150 µ | 20.63 | 10.32 | 98.19 | 1.82 | 0-10 | |

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technologies Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Gradation test

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Excecutive Engineer Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** PCC (1:3:6)
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Source of Material
**Material** Coarse aggregates
**Sample No** 1
**Sample Collection Date** 10-Sep-2022
**Tested Date** 12-Sep-2022

**Weight of Sample: 4000 gms**

| Sl. No | I.S. Sieve size | Weight Retained (gm) | Percentage of weight Retained (%) | Cumulative Percentage of weight retained (%) | Cumulative % of Passing | | Remarks |
|---|---|---|---|---|---|---|---|
| | | | | | Test Result | Gradation Limits as per MORT&H | |
| 1 | 31.50 | 0.00 | 0.00 | 0.00 | 100.00 | 100 | |
| 2 | 26.50 | 453.25 | 11.33 | 11.33 | 88.67 | 85-95 | |
| 3 | 19.00 | 348.25 | 8.71 | 20.04 | 79.96 | 68-88 | |
| 4 | 9.50 | 986.48 | 24.66 | 44.70 | 55.30 | 45-65 | |
| 5 | 4.75 | 579.82 | 14.50 | 59.20 | 40.81 | 30-55 | |
| 6 | 0.60 | 864.25 | 21.61 | 80.80 | 19.20 | 8-30 | |
| 7 | 0.15 | 387.29 | 9.68 | 90.48 | 9.52 | 5-15 | |
| 8 | 0.08 | 258.69 | 6.47 | 96.95 | 3.05 | 0-5 | |

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technologies Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## #REF!

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Excecutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** PCC (1:3:6)
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 2386 (Part - 3) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Source of Material
**Material** Coarse aggregates
**Sample No** 1
**Sample Collection Date** 10-Sep-2022
**Tested Date** 12-Sep-2022

| Sl. No. | Particulars | Computations | Test Numbers | | Mean |
|---|---|---|---|---|---|
| | | | Test 1 | Test 2 | |
| 1 | Weight of SSD sample | $W_1$ g | 761 | 763 | |
| 2 | Wt of Basket Filled with Aggregates Immersed in water | $W_2$g | 2078 | 2064 | |
| 3 | Weight of Saturated Aggregate in water | $W_s g = W_2 - W_1$ | 1317 | 1301 | |
| 4 | Weight of saturated surface dry aggregate in Air | $W_3$ g | 2113 | 2099 | |
| 5 | Weight of water equal to the Volume of the Aggregate | $W_3 - W_s$ | 796 | 798 | |
| 6 | Weight of Oven dried Aggregate | $W_4$g | 2074 | 2060 | |
| 7 | Specific Gravity | $W_4/(W_3 - W_s)$ | 2.61 | 2.58 | 2.59 |
| 8 | Apparent Specific Gravity | $W_4/(W_4 - W_s)$ | 2.74 | 2.71 | 2.73 |
| 9 | Water Absorption | $(W_4 - W_3)*100/W_4$ | 1.88 | 1.89 | 1.89 |

**Comments:** Maximum allowable Aggregate Water Absorption value is 2.0%.

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technologies Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Impact test

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | PCC (1:3:6) |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Source of Material |
| **Material** | Coarse aggregates |
| **Sample No** | 1 |
| **Sample Collection Date** | 10-Sep-2022 |
| **Tested Date** | 12-Sep-2022 |

| Sl. No. | Determination | Unit | Trails | |
|---|---|---|---|---|
| 1 | Weight of empty cylinder, w1 | gm | 960 | 960 |
| 2 | Weight of container filled with Aggregate, w2 | gm | 1334 | 1331 |
| 3 | Weight of the Aggregate before compaction, (w2 - w1) = w3 | gm | 374 | 371 |
| 4 | Weight of the sample passing through 2.36 mm IS sieves after Impact, w4 | gm | 91 | 90 |
| 5 | Weight of the sample retained on 2.36 mm IS sieve after Impact, w5 | gm | 283 | 281 |
| 6 | Aggregate Impact Value (w4 / w3 )x100 | % | 24.33 | 24.26 |
| 7 | Specified Limit | % | 45.00 | |

**Results:** Average Aggregate Impact Value: **24.30** %

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technologies Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Mecadez Core Technology Pvt. Ltd,

**Project Management and Consultancy Services**

**Summary of Frequencies of Field Tests and Lab Tests Conducted**

**Name of the work:** **PACKAGE NO.06 (CONSISTS OF 14 WORKS)**

**Job No:** **MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR**

**Contractor** **M/s. SMLP Asphalts Prop. Sri B B Umesha,**

| Sl. No | Particulars of the Tests | M20 Concrete For Drian Raft | | | |
|---|---|---|---|---|---|
| | | Quantity Cum | Frequency of Tests | Tests Required | Tests Carried Out |
| IV | Concrete | | | | |
| 1 | Compressive strength test | 79.54 | 1 to 5cum=1 sample<br>6 to 15 cum=2 sample<br>16 to 30cum=3 smaple<br>31 to 50cum= 4 sample<br>51cum and above= one additonal sample for every additional 50 cum or part therof | 5 | 5 |
| | 7-days | | | | |
| | 28-days | | | | |

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

consultant

contractor

ASSISTANT ENGINEER

ASSISTANT EXE ENGINEER

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Raft |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 1 |
| **Casting Date** | 15-Sep-2022 |
| **Tested Date** | 22-Sep-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.62 | 150*150*150 | 2554.07 | 306.00 | 0.0225 | 13.60 | 13.60 | 13.63 |
| 2 | 20 | 7 | 8.49 | 150*150*150 | 2515.56 | 304.00 | 0.0225 | 13.51 | | |
| 3 | 20 | 7 | 8.23 | 150*150*150 | 2437.33 | 308.00 | 0.0225 | 13.69 | | |
| 4 | 20 | 7 | 8.70 | 150*150*150 | 2577.78 | 306.00 | 0.0225 | 13.60 | 13.66 | |
| 5 | 20 | 7 | 8.21 | 150*150*150 | 2432.59 | 309.00 | 0.0225 | 13.73 | | |
| 6 | 20 | 7 | 8.35 | 150*150*150 | 2474.07 | 307.00 | 0.0225 | 13.64 | | |

**Results**: 7-days Compressive strength of Concrete is 13.63 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Raft |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 2 |
| **Casting Date** | 15-Sep-2022 |
| **Tested Date** | 22-Sep-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.24 | 150*150*150 | 2441.48 | 311.00 | 0.0225 | 13.82 | 13.64 | 13.63 |
| 2 | 20 | 7 | 8.47 | 150*150*150 | 2509.63 | 302.00 | 0.0225 | 13.42 | | |
| 3 | 20 | 7 | 8.95 | 150*150*150 | 2651.85 | 308.00 | 0.0225 | 13.69 | | |
| 4 | 20 | 7 | 8.35 | 150*150*150 | 2474.07 | 305.00 | 0.0225 | 13.56 | 13.61 | |
| 5 | 20 | 7 | 8.49 | 150*150*150 | 2515.56 | 309.00 | 0.0225 | 13.73 | | |
| 6 | 20 | 7 | 8.79 | 150*150*150 | 2604.44 | 305.00 | 0.0225 | 13.56 | | |

**Results**: 7-days Compressive strength of Concrete is 13.63 N/mm2

**Comments:** 7 days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site

ii. The results relate only to the items tested

iii. This test report should not be reproduced except in full, without written approval of this laboratory

iv. Any query regarding the report must be reported immediately

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P 3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Raft |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 3 |
| **Casting Date** | 15-Sep-2022 |
| **Tested Date** | 22-Sep-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.33 | 150*150*150 | 2468.15 | 313.00 | 0.0225 | 13.91 | 13.73 | 13.72 |
| 2 | 20 | 7 | 8.56 | 150*150*150 | 2536.30 | 304.00 | 0.0225 | 13.51 | | |
| 3 | 20 | 7 | 9.04 | 150*150*150 | 2678.52 | 310.00 | 0.0225 | 13.78 | | |
| 4 | 20 | 7 | 8.44 | 150*150*150 | 2500.74 | 307.00 | 0.0225 | 13.64 | 13.70 | |
| 5 | 20 | 7 | 8.58 | 150*150*150 | 2542.22 | 311.00 | 0.0225 | 13.82 | | |
| 6 | 20 | 7 | 8.88 | 150*150*150 | 2631.11 | 307.00 | 0.0225 | 13.64 | | |

**Results**: 7-days Compressive strength of Concrete is 13.72 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Excecutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 4
**Casting Date** 15-Sep-2022
**Tested Date** 22-Sep-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.43 | 150*150*150 | 2497.78 | 315.00 | 0.0225 | 14.00 | 13.82 | 13.81 |
| 2 | 20 | 7 | 8.66 | 150*150*150 | 2565.93 | 306.00 | 0.0225 | 13.60 | | |
| 3 | 20 | 7 | 9.14 | 150*150*150 | 2708.15 | 312.00 | 0.0225 | 13.87 | | |
| 4 | 20 | 7 | 8.54 | 150*150*150 | 2530.37 | 309.00 | 0.0225 | 13.73 | 13.79 | |
| 5 | 20 | 7 | 8.68 | 150*150*150 | 2571.85 | 313.00 | 0.0225 | 13.91 | | |
| 6 | 20 | 7 | 8.98 | 150*150*150 | 2660.74 | 309.00 | 0.0225 | 13.73 | | |

**Results**: 7 days Compressive strength of Concrete is 13.81 N/mm2
**Comments:** 7 days Compressive strength of M20 Concrete should not be less than 13 N/mm2

Note:
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Exccecutive Engineer Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 5
**Casting Date** 15-Sep-2022
**Tested Date** 22-Sep-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.52 | 150*150*150 | 2524.44 | 317.00 | 0.0225 | 14.09 | 13.91 | 13.90 |
| 2 | 20 | 7 | 8.75 | 150*150*150 | 2592.59 | 308.00 | 0.0225 | 13.69 | | |
| 3 | 20 | 7 | 9.23 | 150*150*150 | 2734.81 | 314.00 | 0.0225 | 13.96 | | |
| 4 | 20 | 7 | 8.63 | 150*150*150 | 2557.04 | 311.00 | 0.0225 | 13.82 | 13.88 | |
| 5 | 20 | 7 | 8.77 | 150*150*150 | 2598.52 | 315.00 | 0.0225 | 14.00 | | |
| 6 | 20 | 7 | 9.07 | 150*150*150 | 2687.41 | 311.00 | 0.0225 | 13.82 | | |

**Results** 7 days Compressive strength of Concrete is 13.90 N/mm2

**Comments:** 7 days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Exeecutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 1
**Casting Date** 15-Sep-2022
**Tested Date** 13-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.62 | 150*150*150 | 2554.07 | 456.00 | 0.0225 | 20.27 | 20.39 | 20.30 |
| 2 | 20 | 28 | 8.49 | 150*150*150 | 2515.56 | 458.00 | 0.0225 | 20.36 | | |
| 3 | 20 | 28 | 8.76 | 150*150*150 | 2595.56 | 462.00 | 0.0225 | 20.53 | | |
| 4 | 20 | 28 | 8.56 | 150*150*150 | 2536.30 | 452.00 | 0.0225 | 20.09 | 20.21 | |
| 5 | 20 | 28 | 8.24 | 150*150*150 | 2441.48 | 450.00 | 0.0225 | 20.00 | | |
| 6 | 20 | 28 | 8.26 | 150*150*150 | 2447.41 | 462.00 | 0.0225 | 20.53 | | |

**Results**: 28-days Compressive strength of Concrete is 20.30 N/mm2
**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Excecutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 2
**Casting Date** 15-Sep-2022
**Tested Date** 13-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.65 | 150*150*150 | 2562.96 | 468.00 | 0.0225 | 20.80 | 20.41 | 20.40 |
| 2 | 20 | 28 | 8.32 | 150*150*150 | 2465.19 | 457.00 | 0.0225 | 20.31 | | |
| 3 | 20 | 28 | 8.54 | 150*150*150 | 2530.37 | 453.00 | 0.0225 | 20.13 | | |
| 4 | 20 | 28 | 8.97 | 150*150*150 | 2657.78 | 459.00 | 0.0225 | 20.40 | 20.39 | |
| 5 | 20 | 28 | 8.64 | 150*150*150 | 2560.00 | 460.00 | 0.0225 | 20.44 | | |
| 6 | 20 | 28 | 8.32 | 150*150*150 | 2465.19 | 457.00 | 0.0225 | 20.31 | | |

**Results**: 28 days Compressive strength of Concrete is 20.40 N/mm2
**Comments:** 28 days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Raft |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 3 |
| **Casting Date** | 15-Sep-2022 |
| **Tested Date** | 13 Oct-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.74 | 150*150*150 | 2589.63 | 470.00 | 0.0225 | 20.89 | 20.50 | 20.49 |
| 2 | 20 | 28 | 8.41 | 150*150*150 | 2491.85 | 459.00 | 0.0225 | 20.40 | | |
| 3 | 20 | 28 | 8.63 | 150*150*150 | 2557.04 | 455.00 | 0.0225 | 20.22 | | |
| 4 | 20 | 28 | 9.06 | 150*150*150 | 2684.44 | 461.00 | 0.0225 | 20.49 | 20.47 | |
| 5 | 20 | 28 | 8.73 | 150*150*150 | 2586.67 | 462.00 | 0.0225 | 20.53 | | |
| 6 | 20 | 28 | 8.41 | 150*150*150 | 2491.85 | 459.00 | 0.0225 | 20.40 | | |

**Results**: 28-days Compressive strength of Concrete is 20.49 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Excecutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 4
**Casting Date** 15-Sep-2022
**Tested Date** 13-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.84 | 150*150*150 | 2619.26 | 472.00 | 0.0225 | 20.98 | 20.59 | 20.58 |
| 2 | 20 | 28 | 8.51 | 150*150*150 | 2521.48 | 461.00 | 0.0225 | 20.49 | | |
| 3 | 20 | 28 | 8.73 | 150*150*150 | 2586.67 | 457.00 | 0.0225 | 20.31 | | |
| 4 | 20 | 28 | 9.16 | 150*150*150 | 2714.07 | 463.00 | 0.0225 | 20.58 | 20.56 | |
| 5 | 20 | 28 | 8.83 | 150*150*150 | 2616.30 | 464.00 | 0.0225 | 20.62 | | |
| 6 | 20 | 28 | 8.51 | 150*150*150 | 2521.48 | 461.00 | 0.0225 | 20.49 | | |

**Results**: 28 days Compressive strength of Concrete is 20.58 N/mm2
**Comments:** 28 days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately

**Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Executive Engineer Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P 3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
**Location** Laboratory
**Material** Concrete
**Sample No** 5
**Casting Date** 15 Sep 2022
**Tested Date** 13-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.93 | 150*150*150 | 2645.93 | 474.00 | 0.0225 | 21.07 | | |
| 2 | 20 | 28 | 8.60 | 150*150*150 | 2548.15 | 463.00 | 0.0225 | 20.58 | 20.68 | |
| 3 | 20 | 28 | 8.82 | 150*150*150 | 2613.33 | 459.00 | 0.0225 | 20.40 | | 20.67 |
| 4 | 20 | 28 | 9.25 | 150*150*150 | 2740.74 | 465.00 | 0.0225 | 20.67 | | |
| 5 | 20 | 28 | 8.92 | 150*150*150 | 2642.96 | 466.00 | 0.0225 | 20.71 | 20.65 | |
| 6 | 20 | 28 | 8.60 | 150*150*150 | 2548.15 | 463.00 | 0.0225 | 20.58 | | |

**Results**: 28 days Compressive strength of Concrete is 20.67 N/mm2
**Comments:** 28 days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested
iii. This test report should not be reproduced except in full, without written approval of this laboratory
iv. Any query regarding the report must be reported immediately

**Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Mecadez Core Technology Pvt. Ltd,

**Project Management and Consultancy Services**

**Summary of Frequencies of Field Tests and Lab Tests Conducted**

**Name of the work:** **PACKAGE NO.06 (CONSISTS OF 14 WORKS)**

**Job No:** **MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR**

**Contractor** **M/s. SMLP Asphalts Prop. Sri B B Umesha,**

| Sl. No | Particulars of the Tests | M20 Concrete For Drian Raft | | | |
|---|---|---|---|---|---|
| | | Quantity Cum | Frequency of Tests | Tests Required | Tests Carried Out |
| IV | **Concrete** | | | | |
| 1 | Compressive strength test | 38.06 | 1 to 5cum=1 sample<br>6 to 15 cum=2 sample<br>16 to 30cum=3 smaple<br>31 to 50cum= 4 sample<br>51cum and above= one additonal sample for every additional 50 cum or part therof | 4 | 4 |
| | 7-days | | | | |
| | 28-days | | | | |

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

consultant

contractor

ASSISTANT ENGINEER

ASSISTANT EXE ENGINEER

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Excecutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 1
**Casting Date** 28-Sep-2022
**Tested Date** 5-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.65 | 150*150*150 | 2562.96 | 306.00 | 0.0225 | 13.60 | 13.60 | 13.63 |
| 2 | 20 | 7 | 8.46 | 150*150*150 | 2506.67 | 304.00 | 0.0225 | 13.51 | | |
| 3 | 20 | 7 | 8.14 | 150*150*150 | 2411.26 | 308.00 | 0.0225 | 13.69 | | |
| 4 | 20 | 7 | 79.00 | 150*150*150 | 23407.41 | 306.00 | 0.0225 | 13.60 | 13.66 | |
| 5 | 20 | 7 | 826.00 | 150*150*150 | 244740.74 | 309.00 | 0.0225 | 13.73 | | |
| 6 | 20 | 7 | 8.45 | 150*150*150 | 2503.70 | 307.00 | 0.0225 | 13.64 | | |

**Results**: 7 days Compressive strength of Concrete is 13.63 N/mm2
**Comments:** 7 days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Excecutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 2
**Casting Date** 28-Sep-2022
**Tested Date** 5-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.24 | 150*150*150 | 2441.48 | 311.00 | 0.0225 | 13.82 | 13.64 | 13.63 |
| 2 | 20 | 7 | 8.47 | 150*150*150 | 2509.63 | 302.00 | 0.0225 | 13.42 | | |
| 3 | 20 | 7 | 8.95 | 150*150*150 | 2651.85 | 308.00 | 0.0225 | 13.69 | | |
| 4 | 20 | 7 | 8.35 | 150*150*150 | 2474.07 | 305.00 | 0.0225 | 13.56 | 13.61 | |
| 5 | 20 | 7 | 8.49 | 150*150*150 | 2515.56 | 309.00 | 0.0225 | 13.73 | | |
| 6 | 20 | 7 | 8.79 | 150*150*150 | 2604.44 | 305.00 | 0.0225 | 13.56 | | |

**Results**: 7-days Compressive strength of Concrete is 13.63 N/mm2
**Comments:** 7 days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Raft |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 3 |
| **Casting Date** | 28 Sep 2022 |
| **Tested Date** | 5 Oct 2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.33 | 150*150*150 | 2468.15 | 313.00 | 0.0225 | 13.91 | 13.73 | 13.72 |
| 2 | 20 | 7 | 8.56 | 150*150*150 | 2536.30 | 304.00 | 0.0225 | 13.51 | | |
| 3 | 20 | 7 | 9.04 | 150*150*150 | 2678.52 | 310.00 | 0.0225 | 13.78 | | |
| 4 | 20 | 7 | 8.44 | 150*150*150 | 2500.74 | 307.00 | 0.0225 | 13.64 | 13.70 | |
| 5 | 20 | 7 | 8.58 | 150*150*150 | 2542.22 | 311.00 | 0.0225 | 13.82 | | |
| 6 | 20 | 7 | 8.88 | 150*150*150 | 2631.11 | 307.00 | 0.0225 | 13.64 | | |

**Results** 7 days Compressive strength of Concrete is 13.72 N/mm2

**Comments:** 7 days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory

iv. Any query regarding the report must be reported immediately

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Executive Engineer, Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha.
**Test Method** IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 4
**Casting Date** 28-Sep-2022
**Tested Date** 5-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.43 | 150*150*150 | 2497.78 | 315.00 | 0.0225 | 14.00 | 13.82 | 13.81 |
| 2 | 20 | 7 | 8.66 | 150*150*150 | 2565.93 | 306.00 | 0.0225 | 13.60 | | |
| 3 | 20 | 7 | 9.14 | 150*150*150 | 2708.15 | 312.00 | 0.0225 | 13.87 | | |
| 4 | 20 | 7 | 8.54 | 150*150*150 | 2530.37 | 309.00 | 0.0225 | 13.73 | 13.79 | |
| 5 | 20 | 7 | 8.68 | 150*150*150 | 2571.85 | 313.00 | 0.0225 | 13.91 | | |
| 6 | 20 | 7 | 8.98 | 150*150*150 | 2660.74 | 309.00 | 0.0225 | 13.73 | | |

**Results**: 7-days Compressive strength of Concrete is 13.81 N/mm2
**Comments:** 7 days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested
iii. This test report should not be reproduced except in full, without written approval of this laboratory
iv. Any query regarding the report must be reported immediately

**Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Excecutive Engineer- Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P 3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
**Location** Laboratory
**Material** Concrete
**Sample No** 1
**Casting Date** 28-Sep-2022
**Tested Date** 26-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.95 | 150*150*150 | 2651.85 | 468.00 | 0.0225 | 20.80 | | |
| 2 | 20 | 28 | 8.84 | 150*150*150 | 2619.26 | 457.00 | 0.0225 | 20.31 | 20.40 | |
| 3 | 20 | 28 | 8.51 | 150*150*150 | 2521.48 | 452.00 | 0.0225 | 20.09 | | |
| 4 | 20 | 28 | 8.62 | 150*150*150 | 2554.07 | 460.00 | 0.0225 | 20.44 | | 20.48 |
| 5 | 20 | 28 | 8.32 | 150*150*150 | 2465.19 | 458.00 | 0.0225 | 20.36 | 20.56 | |
| 6 | 20 | 28 | 8.97 | 150*150*150 | 2657.78 | 470.00 | 0.0225 | 20.89 | | |

**Results**: 28-days Compressive strength of Concrete is 20.48 N/mm2
**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Excecutive Engineer Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 2
**Casting Date** 28-Sep-2022
**Tested Date** 26-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.65 | 150*150*150 | 2562.96 | 468.00 | 0.0225 | 20.80 | 20.41 | 20.40 |
| 2 | 20 | 28 | 8.32 | 150*150*150 | 2465.19 | 457.00 | 0.0225 | 20.31 | | |
| 3 | 20 | 28 | 8.54 | 150*150*150 | 2530.37 | 453.00 | 0.0225 | 20.13 | | |
| 4 | 20 | 28 | 8.97 | 150*150*150 | 2657.78 | 459.00 | 0.0225 | 20.40 | 20.39 | |
| 5 | 20 | 28 | 8.64 | 150*150*150 | 2560.00 | 460.00 | 0.0225 | 20.44 | | |
| 6 | 20 | 28 | 8.32 | 150*150*150 | 2465.19 | 457.00 | 0.0225 | 20.31 | | |

**Results**: 28 days Compressive strength of Concrete is 20.40 N/mm2
**Comments:** 28 days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested
iii. This test report should not be reproduced except in full, without written approval of this Laboratory
iv. Any query regarding the report must be reported immediately

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRF) CB

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Executive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Raft |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 3 |
| **Casting Date** | 28-Sep-2022 |
| **Tested Date** | 26-Oct-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.74 | 150*150*150 | 2589.63 | 470.00 | 0.0225 | 20.89 | 20.50 | 20.49 |
| 2 | 20 | 28 | 8.41 | 150*150*150 | 2491.85 | 459.00 | 0.0225 | 20.40 | | |
| 3 | 20 | 28 | 8.63 | 150*150*150 | 2557.04 | 455.00 | 0.0225 | 20.22 | | |
| 4 | 20 | 28 | 9.06 | 150*150*150 | 2684.44 | 461.00 | 0.0225 | 20.49 | 20.47 | |
| 5 | 20 | 28 | 8.73 | 150*150*150 | 2586.67 | 462.00 | 0.0225 | 20.53 | | |
| 6 | 20 | 28 | 8.41 | 150*150*150 | 2491.85 | 459.00 | 0.0225 | 20.40 | | |

**Results**: 28-days Compressive strength of Concrete is 20.49 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P 3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Raft |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 4 |
| **Casting Date** | 28-Sep-2022 |
| **Tested Date** | 26-Oct-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.84 | 150*150*150 | 2619.26 | 472.00 | 0.0225 | 20.98 | 20.59 | 20.58 |
| 2 | 20 | 28 | 8.51 | 150*150*150 | 2521.48 | 461.00 | 0.0225 | 20.49 | | |
| 3 | 20 | 28 | 8.73 | 150*150*150 | 2586.67 | 457.00 | 0.0225 | 20.31 | | |
| 4 | 20 | 28 | 9.16 | 150*150*150 | 2714.07 | 463.00 | 0.0225 | 20.58 | 20.56 | |
| 5 | 20 | 28 | 8.83 | 150*150*150 | 2616.30 | 464.00 | 0.0225 | 20.62 | | |
| 6 | 20 | 28 | 8.51 | 150*150*150 | 2521.48 | 461.00 | 0.0225 | 20.49 | | |

**Results:** 28-days Compressive strength of Concrete is 20.58 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Mecadez Core Technology Pvt. Ltd,

**Project Management and Consultancy Services**

**Summary of Frequencies of Field Tests and Lab Tests Conducted**

**Name of the work:** **PACKAGE NO.06 (CONSISTS OF 14 WORKS)**

**Job No:** **MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR**

**Contractor** **M/s. SMLP Asphalts Prop. Sri B B Umesha,**

| Sl. No | Particulars of the Tests | M20 Concrete For Drian Raft | | | |
|---|---|---|---|---|---|
| | | Quantity Cum | Frequency of Tests | Tests Required | Tests Carried Out |
| IV | **Concrete** | | | | |
| 1 | Compressive strength test | 113.13 | 1 to 5cum=1 sample<br>6 to 15 cum=2 sample<br>16 to 30cum=3 smaple<br>31 to 50cum= 4 sample<br>51cum and above= one additonal sample for every additional 50 cum or part therof | 6 | 6 |
| | 7-days | | | | |
| | 28-days | | | | |

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

consultant

contractor

ASSISTANT ENGINEER

ASSISTANT EXE ENGINEER

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Excecutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 1
**Casting Date** 3-Dec-2022
**Tested Date** 10-Dec-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.65 | 150*150*150 | 2562.96 | 306.00 | 0.0225 | 13.60 | 13.60 | 13.63 |
| 2 | 20 | 7 | 8.46 | 150*150*150 | 2506.67 | 304.00 | 0.0225 | 13.51 | | |
| 3 | 20 | 7 | 8.23 | 150*150*150 | 2438.52 | 308.00 | 0.0225 | 13.69 | | |
| 4 | 20 | 7 | 8.79 | 150*150*150 | 2604.44 | 306.00 | 0.0225 | 13.60 | 13.66 | |
| 5 | 20 | 7 | 8.21 | 150*150*150 | 2432.59 | 309.00 | 0.0225 | 13.73 | | |
| 6 | 20 | 7 | 8.95 | 150*150*150 | 2651.85 | 307.00 | 0.0225 | 13.64 | | |

**Results**: 7-days Compressive strength of Concrete is 13.63 N/mm2
**Comments:** 7 days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P 3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Raft |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha. |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 2 |
| **Casting Date** | 3-Dec-2022 |
| **Tested Date** | 10-Dec-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.95 | 150*150*150 | 2651.85 | 311.00 | 0.0225 | 13.82 | | |
| 2 | 20 | 7 | 8.79 | 150*150*150 | 2604.44 | 302.00 | 0.0225 | 13.42 | 13.53 | |
| 3 | 20 | 7 | 8.24 | 150*150*150 | 2441.48 | 300.00 | 0.0225 | 13.33 | | 13.57 |
| 4 | 20 | 7 | 8.26 | 150*150*150 | 2447.41 | 305.00 | 0.0225 | 13.56 | | |
| 5 | 20 | 7 | 8.00 | 150*150*150 | 2370.37 | 309.00 | 0.0225 | 13.73 | 13.61 | |
| 6 | 20 | 7 | 8.79 | 150*150*150 | 2604.44 | 305.00 | 0.0225 | 13.56 | | |

**Results**: 7 days Compressive strength of Concrete is 13.57 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Exceeutive Engineer Byatarayanapura Division

**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR

**Mix Type** M20 Concrete For Drian Raft

**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,

**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.

**Location** Laboratory

**Material** Concrete

**Sample No** 3

**Casting Date** 3-Dec-2022

**Tested Date** 10-Dec-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 9.04 | 150*150*150 | 2678.52 | 313.00 | 0.0225 | 13.91 | 13.61 | 13.66 |
| 2 | 20 | 7 | 8.88 | 150*150*150 | 2631.11 | 304.00 | 0.0225 | 13.51 | | |
| 3 | 20 | 7 | 8.33 | 150*150*150 | 2468.15 | 302.00 | 0.0225 | 13.42 | | |
| 4 | 20 | 7 | 8.35 | 150*150*150 | 2474.07 | 307.00 | 0.0225 | 13.64 | 13.70 | |
| 5 | 20 | 7 | 8.09 | 150*150*150 | 2397.04 | 311.00 | 0.0225 | 13.82 | | |
| 6 | 20 | 7 | 8.88 | 150*150*150 | 2631.11 | 307.00 | 0.0225 | 13.64 | | |

**Results**: 7-days Compressive strength of Concrete is 13.66 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site

ii. The results relate only to the items tested

iii. This test report should not be reproduced except in full, without written approval of this laboratory

iv. Any query regarding the report must be reported immediately

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

CERTIFIED
QMS ISO 9001:2015
ACCAB Accredited QMS 1602
An ISO 9001:2015 & ISO/IEC 27001:2013
Quality Management System
Certified Company

MECADEZ
MECADEZ CORE TECHNOLOGIES PRIVATE LIMITED
PROJECT MANAGEMENT CONSULTANCY SERVICES

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Executive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P 3877/2022 23/QR |
| **Mix Type** | M20 Concrete For Drian Raft |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 4 |
| **Casting Date** | 3 Dec 2022 |
| **Tested Date** | 10 Dec 2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 9.14 | 150*150*150 | 2708.15 | 315.00 | 0.0225 | 14.00 | 13.70 | 13.75 |
| 2 | 20 | 7 | 8.98 | 150*150*150 | 2660.74 | 306.00 | 0.0225 | 13.60 | | |
| 3 | 20 | 7 | 8.43 | 150*150*150 | 2497.78 | 304.00 | 0.0225 | 13.51 | | |
| 4 | 20 | 7 | 8.45 | 150*150*150 | 2503.70 | 309.00 | 0.0225 | 13.73 | 13.79 | |
| 5 | 20 | 7 | 8.19 | 150*150*150 | 2426.67 | 313.00 | 0.0225 | 13.91 | | |
| 6 | 20 | 7 | 8.98 | 150*150*150 | 2660.74 | 309.00 | 0.0225 | 13.73 | | |

**Results** 7-days Compressive strength of Concrete is 13.75 N/mm2

**Comments:** 7 days Compressive strength of M20 Concrete should not be less than 13 N/mm2

Note

i. The results indicated above are based on the tests carried out on the sample as rec
ii. The results relate only to the items tested
iii. This test report should not be reproduced except in full, without written approval of this laboratory
iv. Any query regarding the report must be reported immediately

Mecadez Core Technology Pvt. Ltd,

Authorised Signature

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Exeecutive Engineer Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P 3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 4
**Casting Date** 3-Dec-2022
**Tested Date** 10-Dec-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 9.14 | 150*150*150 | 2708.15 | 315.00 | 0.0225 | 14.00 | 13.70 | 13.75 |
| 2 | 20 | 7 | 8.98 | 150*150*150 | 2660.74 | 306.00 | 0.0225 | 13.60 | | |
| 3 | 20 | 7 | 8.43 | 150*150*150 | 2497.78 | 304.00 | 0.0225 | 13.51 | | |
| 4 | 20 | 7 | 8.45 | 150*150*150 | 2503.70 | 309.00 | 0.0225 | 13.73 | 13.79 | |
| 5 | 20 | 7 | 8.19 | 150*150*150 | 2426.67 | 313.00 | 0.0225 | 13.91 | | |
| 6 | 20 | 7 | 8.98 | 150*150*150 | 2660.74 | 309.00 | 0.0225 | 13.73 | | |

**Results**: 7-days Compressive strength of Concrete is 13.75 N/mm2
**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Exceeutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 5
**Casting Date** 3-Dec-2022
**Tested Date** 10-Dec-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 9.23 | 150*150*150 | 2734.81 | 317.00 | 0.0225 | 14.09 | 13.79 | 13.84 |
| 2 | 20 | 7 | 9.07 | 150*150*150 | 2687.41 | 308.00 | 0.0225 | 13.69 | | |
| 3 | 20 | 7 | 8.52 | 150*150*150 | 2524.44 | 306.00 | 0.0225 | 13.60 | | |
| 4 | 20 | 7 | 8.54 | 150*150*150 | 2530.37 | 311.00 | 0.0225 | 13.82 | 13.88 | |
| 5 | 20 | 7 | 8.28 | 150*150*150 | 2453.33 | 315.00 | 0.0225 | 14.00 | | |
| 6 | 20 | 7 | 9.07 | 150*150*150 | 2687.41 | 311.00 | 0.0225 | 13.82 | | |

**Results**: 7-days Compressive strength of Concrete is 13.84 N/mm2
**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2
**Note:**
i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Exeecutive Engineer Byatarayanapura Division

**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR

**Mix Type** M20 Concrete For Drian Raft

**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,

**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.

**Location** Laboratory

**Material** Concrete

**Sample No** 6

**Casting Date** 3-Dec-2022

**Tested Date** 10-Dec-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 9.33 | 150*150*150 | 2764.44 | 319.00 | 0.0225 | 14.18 | 13.88 | 13.93 |
| 2 | 20 | 7 | 9.17 | 150*150*150 | 2717.04 | 310.00 | 0.0225 | 13.78 | | |
| 3 | 20 | 7 | 8.62 | 150*150*150 | 2554.07 | 308.00 | 0.0225 | 13.69 | | |
| 4 | 20 | 7 | 8.64 | 150*150*150 | 2560.00 | 313.00 | 0.0225 | 13.91 | 13.97 | |
| 5 | 20 | 7 | 8.38 | 150*150*150 | 2482.96 | 317.00 | 0.0225 | 14.09 | | |
| 6 | 20 | 7 | 9.17 | 150*150*150 | 2717.04 | 313.00 | 0.0225 | 13.91 | | |

**Results** 7 days Compressive strength of Concrete is 13.93 N/mm2

**Comments:** 7 days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site

ii. The results relate only to the items tested

iii. This test report should not be reproduced except in full, without written approval of this laboratory

iv. Any query regarding the report must be reported immediately

**Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P 3877/2022 23/QR |
| **Mix Type** | M20 Concrete For Drian Raft |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 1 |
| **Casting Date** | 3-Dec-2022 |
| **Tested Date** | 31-Dec-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.62 | 150*150*150 | 2554.07 | 456.00 | 0.0225 | 20.27 | 20.39 | 20.30 |
| 2 | 20 | 28 | 8.49 | 150*150*150 | 2515.56 | 458.00 | 0.0225 | 20.36 | | |
| 3 | 20 | 28 | 8.76 | 150*150*150 | 2595.56 | 462.00 | 0.0225 | 20.53 | | |
| 4 | 20 | 28 | 8.56 | 150*150*150 | 2536.30 | 452.00 | 0.0225 | 20.09 | 20.21 | |
| 5 | 20 | 28 | 8.24 | 150*150*150 | 2441.48 | 450.00 | 0.0225 | 20.00 | | |
| 6 | 20 | 28 | 8.26 | 150*150*150 | 2447.41 | 462.00 | 0.0225 | 20.53 | | |

**Results**: 28 days Compressive strength of Concrete is 20.30 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Pvt. Ltd,**

Authorised Signature

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Excecutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 2
**Casting Date** 3 Dec-2022
**Tested Date** 31-Dec-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.65 | 150*150*150 | 2562.96 | 468.00 | 0.0225 | 20.80 | 20.41 | 20.37 |
| 2 | 20 | 28 | 8.32 | 150*150*150 | 2465.19 | 457.00 | 0.0225 | 20.31 | | |
| 3 | 20 | 28 | 8.54 | 150*150*150 | 2530.37 | 453.00 | 0.0225 | 20.13 | | |
| 4 | 20 | 28 | 8.97 | 150*150*150 | 2657.78 | 455.00 | 0.0225 | 20.22 | 20.33 | |
| 5 | 20 | 28 | 8.64 | 150*150*150 | 2560.00 | 460.00 | 0.0225 | 20.44 | | |
| 6 | 20 | 28 | 8.32 | 150*150*150 | 2465.19 | 457.00 | 0.0225 | 20.31 | | |

**Results**: 28-days Compressive strength of Concrete is 20.37 N/mm2
**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Executive Engineer Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 3
**Casting Date** 3 Dec 2022
**Tested Date** 31 Dec 2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.74 | 150*150*150 | 2589.63 | 470.00 | 0.0225 | 20.89 | | |
| 2 | 20 | 28 | 8.41 | 150*150*150 | 2491.85 | 459.00 | 0.0225 | 20.40 | 20.50 | |
| 3 | 20 | 28 | 8.63 | 150*150*150 | 2557.04 | 455.00 | 0.0225 | 20.22 | | 20.46 |
| 4 | 20 | 28 | 9.06 | 150*150*150 | 2684.44 | 457.00 | 0.0225 | 20.31 | | |
| 5 | 20 | 28 | 8.73 | 150*150*150 | 2586.67 | 462.00 | 0.0225 | 20.53 | 20.41 | |
| 6 | 20 | 28 | 8.41 | 150*150*150 | 2491.85 | 459.00 | 0.0225 | 20.40 | | |

**Results**: 28 days Compressive strength of Concrete is 20.46 N/mm2
**Comments:** 28 days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested
iii. This test report should not be reproduced except in full, without written approval of this laboratory
iv. Any query regarding the report must be reported immediately

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P 3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Raft |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 4 |
| **Casting Date** | 3-Dec-2022 |
| **Tested Date** | 31-Dec-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.84 | 150*150*150 | 2619.26 | 472.00 | 0.0225 | 20.98 | 20.59 | 20.55 |
| 2 | 20 | 28 | 8.51 | 150*150*150 | 2521.48 | 461.00 | 0.0225 | 20.49 | | |
| 3 | 20 | 28 | 8.73 | 150*150*150 | 2586.67 | 457.00 | 0.0225 | 20.31 | | |
| 4 | 20 | 28 | 9.16 | 150*150*150 | 2714.07 | 459.00 | 0.0225 | 20.40 | 20.50 | |
| 5 | 20 | 28 | 8.83 | 150*150*150 | 2616.30 | 464.00 | 0.0225 | 20.62 | | |
| 6 | 20 | 28 | 8.51 | 150*150*150 | 2521.48 | 461.00 | 0.0225 | 20.49 | | |

**Results**: 28-days Compressive strength of Concrete is 20.55 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Exeecutive Engineer Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
**Location** Laboratory
**Material** Concrete
**Sample No** 5
**Casting Date** 3 Dec 2022
**Tested Date** 31 Dec 2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.93 | 150*150*150 | 2645.93 | 474.00 | 0.0225 | 21.07 | 20.68 | 20.64 |
| 2 | 20 | 28 | 8.60 | 150*150*150 | 2548.15 | 463.00 | 0.0225 | 20.58 | | |
| 3 | 20 | 28 | 8.82 | 150*150*150 | 2613.33 | 459.00 | 0.0225 | 20.40 | | |
| 4 | 20 | 28 | 9.25 | 150*150*150 | 2740.74 | 461.00 | 0.0225 | 20.49 | 20.59 | |
| 5 | 20 | 28 | 8.92 | 150*150*150 | 2642.96 | 466.00 | 0.0225 | 20.71 | | |
| 6 | 20 | 28 | 8.60 | 150*150*150 | 2548.15 | 463.00 | 0.0225 | 20.58 | | |

**Results**: 28 days Compressive strength of Concrete is 20.64 N/mm2
**Comments:** 28 days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Executive Engineer Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
**Location** Laboratory
**Material** Concrete
**Sample No** 5
**Casting Date** 3-Dec-2022
**Tested Date** 31 Dec 2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.93 | 150*150*150 | 2645.93 | 474.00 | 0.0225 | 21.07 | 20.68 | 20.64 |
| 2 | 20 | 28 | 8.60 | 150*150*150 | 2548.15 | 463.00 | 0.0225 | 20.58 | | |
| 3 | 20 | 28 | 8.82 | 150*150*150 | 2613.33 | 459.00 | 0.0225 | 20.40 | | |
| 4 | 20 | 28 | 9.25 | 150*150*150 | 2740.74 | 461.00 | 0.0225 | 20.49 | 20.59 | |
| 5 | 20 | 28 | 8.92 | 150*150*150 | 2642.96 | 466.00 | 0.0225 | 20.71 | | |
| 6 | 20 | 28 | 8.60 | 150*150*150 | 2548.15 | 463.00 | 0.0225 | 20.58 | | |

**Results**: 28 days Compressive strength of Concrete is 20.64 N/mm2
**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Exceeutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 6
**Casting Date** 3-Dec-2022
**Tested Date** 31-Dec-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 9.03 | 150*150*150 | 2675.56 | 476.00 | 0.0225 | 21.16 | 20.77 | 20.73 |
| 2 | 20 | 28 | 8.70 | 150*150*150 | 2577.78 | 465.00 | 0.0225 | 20.67 | | |
| 3 | 20 | 28 | 8.92 | 150*150*150 | 2642.96 | 461.00 | 0.0225 | 20.49 | | |
| 4 | 20 | 28 | 9.35 | 150*150*150 | 2770.37 | 463.00 | 0.0225 | 20.58 | 20.68 | |
| 5 | 20 | 28 | 9.02 | 150*150*150 | 2672.59 | 468.00 | 0.0225 | 20.80 | | |
| 6 | 20 | 28 | 8.70 | 150*150*150 | 2577.78 | 465.00 | 0.0225 | 20.67 | | |

**Results**: 28-days Compressive strength of Concrete is 20.73 N/mm2
**Comments**: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Exceecutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 6
**Casting Date** 3 Dec-2022
**Tested Date** 31-Dec-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 9.03 | 150*150*150 | 2675.56 | 476.00 | 0.0225 | 21.16 | 20.77 | 20.73 |
| 2 | 20 | 28 | 8.70 | 150*150*150 | 2577.78 | 465.00 | 0.0225 | 20.67 | | |
| 3 | 20 | 28 | 8.92 | 150*150*150 | 2642.96 | 461.00 | 0.0225 | 20.49 | | |
| 4 | 20 | 28 | 9.35 | 150*150*150 | 2770.37 | 463.00 | 0.0225 | 20.58 | 20.68 | |
| 5 | 20 | 28 | 9.02 | 150*150*150 | 2672.59 | 468.00 | 0.0225 | 20.80 | | |
| 6 | 20 | 28 | 8.70 | 150*150*150 | 2577.78 | 465.00 | 0.0225 | 20.67 | | |

**Results**: 28-days Compressive strength of Concrete is 20.73 N/mm2
**Comments**: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:
i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested
iii. This test report should not be reproduced except in full, without written approval of this laboratory
iv. Any query regarding the report must be reported immediately

**Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Mecadez Core Technology Pvt. Ltd,

**Project Management and Consultancy Services**

**Summary of Frequencies of Field Tests and Lab Tests Conducted**

**Name of the work:** **PACKAGE NO.06 (CONSISTS OF 14 WORKS)**

**Job No:** **MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR**

**Contractor** **M/s. SMLP Asphalts Prop. Sri B B Umesha,**

| Sl. No | Particulars of the Tests | M20 Concrete For Drian Raft | | | |
|---|---|---|---|---|---|
| | | Quantity Cum | Frequency of Tests | Tests Required | Tests Carried Out |
| IV | **Concrete** | | | | |
| 1 | Compressive strength test | 79.54 | 1 to 5cum=1 sample<br>6 to 15 cum=2 sample<br>16 to 30cum=3 smaple<br>31 to 50cum= 4 sample<br>51cum and above= one additonal sample for every additional 50 cum or part therof | 5 | 5 |
| | 7-days | | | | |
| | 28-days | | | | |

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

consultant

contractor

ASSISTANT ENGINEER

ASSISTANT ENGINEER

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exeecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Raft |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 1 |
| **Casting Date** | 15-Sep-2022 |
| **Tested Date** | 22-Sep-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.62 | 150*150*150 | 2554.07 | 306.00 | 0.0225 | 13.60 | 13.60 | 13.63 |
| 2 | 20 | 7 | 8.49 | 150*150*150 | 2515.56 | 304.00 | 0.0225 | 13.51 | | |
| 3 | 20 | 7 | 8.23 | 150*150*150 | 2437.33 | 308.00 | 0.0225 | 13.69 | | |
| 4 | 20 | 7 | 8.70 | 150*150*150 | 2577.78 | 306.00 | 0.0225 | 13.60 | 13.66 | |
| 5 | 20 | 7 | 8.21 | 150*150*150 | 2432.59 | 309.00 | 0.0225 | 13.73 | | |
| 6 | 20 | 7 | 8.35 | 150*150*150 | 2474.07 | 307.00 | 0.0225 | 13.64 | | |

**Results**: 7-days Compressive strength of Concrete is 13.63 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exeecutive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P 3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Raft |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 2 |
| **Casting Date** | 15-Sep-2022 |
| **Tested Date** | 22-Sep-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.24 | 150*150*150 | 2441.48 | 311.00 | 0.0225 | 13.82 | 13.64 | 13.63 |
| 2 | 20 | 7 | 8.47 | 150*150*150 | 2509.63 | 302.00 | 0.0225 | 13.42 | | |
| 3 | 20 | 7 | 8.95 | 150*150*150 | 2651.85 | 308.00 | 0.0225 | 13.69 | | |
| 4 | 20 | 7 | 8.35 | 150*150*150 | 2474.07 | 305.00 | 0.0225 | 13.56 | 13.61 | |
| 5 | 20 | 7 | 8.49 | 150*150*150 | 2515.56 | 309.00 | 0.0225 | 13.73 | | |
| 6 | 20 | 7 | 8.79 | 150*150*150 | 2604.44 | 305.00 | 0.0225 | 13.56 | | |

**Results**: 7-days Compressive strength of Concrete is 13.63 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Exeecutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 3
**Casting Date** 15-Sep-2022
**Tested Date** 22-Sep-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.33 | 150*150*150 | 2468.15 | 313.00 | 0.0225 | 13.91 | 13.73 | 13.72 |
| 2 | 20 | 7 | 8.56 | 150*150*150 | 2536.30 | 304.00 | 0.0225 | 13.51 | | |
| 3 | 20 | 7 | 9.04 | 150*150*150 | 2678.52 | 310.00 | 0.0225 | 13.78 | | |
| 4 | 20 | 7 | 8.44 | 150*150*150 | 2500.74 | 307.00 | 0.0225 | 13.64 | 13.70 | |
| 5 | 20 | 7 | 8.58 | 150*150*150 | 2542.22 | 311.00 | 0.0225 | 13.82 | | |
| 6 | 20 | 7 | 8.88 | 150*150*150 | 2631.11 | 307.00 | 0.0225 | 13.64 | | |

**Results**: 7-days Compressive strength of Concrete is 13.72 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Excecutive Engineer -Byatarayanapura Division

**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR

**Mix Type** M20 Concrete For Drian Raft

**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,

**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.

**Location** Laboratory

**Material** Concrete

**Sample No** 4

**Casting Date** 15-Sep-2022

**Tested Date** 22-Sep-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.43 | 150*150*150 | 2497.78 | 315.00 | 0.0225 | 14.00 | 13.82 | 13.81 |
| 2 | 20 | 7 | 8.66 | 150*150*150 | 2565.93 | 306.00 | 0.0225 | 13.60 | | |
| 3 | 20 | 7 | 9.14 | 150*150*150 | 2708.15 | 312.00 | 0.0225 | 13.87 | | |
| 4 | 20 | 7 | 8.54 | 150*150*150 | 2530.37 | 309.00 | 0.0225 | 13.73 | 13.79 | |
| 5 | 20 | 7 | 8.68 | 150*150*150 | 2571.85 | 313.00 | 0.0225 | 13.91 | | |
| 6 | 20 | 7 | 8.98 | 150*150*150 | 2660.74 | 309.00 | 0.0225 | 13.73 | | |

**Results**: 7-days Compressive strength of Concrete is 13.81 N/mm2

**Comments:** 7 days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

CERTIFIED
QMS ISO 9001:2015
ACCAB Accredited QMS 1002
An ISO 9001:2015 & ISO/IEC 27001:2013
Quality Management System
Certified Company

MECADEZ
Insight Makes It Happen
MECADEZ CORE TECHNOLOGIES PRIVATE LIMITED
PROJECT MANAGEMENT CONSULTANCY SERVICES

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exceeutive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P 3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Raft |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 5 |
| **Casting Date** | 15-Sep-2022 |
| **Tested Date** | 22-Sep-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.52 | 150*150*150 | 2524.44 | 317.00 | 0.0225 | 14.09 | 13.91 | 13.90 |
| 2 | 20 | 7 | 8.75 | 150*150*150 | 2592.59 | 308.00 | 0.0225 | 13.69 | | |
| 3 | 20 | 7 | 9.23 | 150*150*150 | 2734.81 | 314.00 | 0.0225 | 13.96 | | |
| 4 | 20 | 7 | 8.63 | 150*150*150 | 2557.04 | 311.00 | 0.0225 | 13.82 | 13.88 | |
| 5 | 20 | 7 | 8.77 | 150*150*150 | 2598.52 | 315.00 | 0.0225 | 14.00 | | |
| 6 | 20 | 7 | 9.07 | 150*150*150 | 2687.41 | 311.00 | 0.0225 | 13.82 | | |

**Results**: 7-days Compressive strength of Concrete is 13.90 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

Mecadez Core Technology Pvt. Ltd,

Authorised Signature

AEE (VRP) SD

o. 80, Aniketana, 14th 'B' Main, West of Chord Road, 2nd Stage, 2nd Phase, Mahalakshmipuram, Bengaluru - 560 086, Karnataka
ecadez@gmail.com +91 9538136111 +91 9483561234 www.mecadez.com

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Exceeutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P 3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 1
**Casting Date** 15-Sep-2022
**Tested Date** 13-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.62 | 150*150*150 | 2554.07 | 456.00 | 0.0225 | 20.27 | 20.39 | 20.30 |
| 2 | 20 | 28 | 8.49 | 150*150*150 | 2515.56 | 458.00 | 0.0225 | 20.36 | | |
| 3 | 20 | 28 | 8.76 | 150*150*150 | 2595.56 | 462.00 | 0.0225 | 20.53 | | |
| 4 | 20 | 28 | 8.56 | 150*150*150 | 2536.30 | 452.00 | 0.0225 | 20.09 | 20.21 | |
| 5 | 20 | 28 | 8.24 | 150*150*150 | 2441.48 | 450.00 | 0.0225 | 20.00 | | |
| 6 | 20 | 28 | 8.26 | 150*150*150 | 2447.41 | 462.00 | 0.0225 | 20.53 | | |

**Results**: 28-days Compressive strength of Concrete is 20.30 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer –Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Raft |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 2 |
| **Casting Date** | 15-Sep-2022 |
| **Tested Date** | 13-Oct-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.65 | 150*150*150 | 2562.96 | 468.00 | 0.0225 | 20.80 | | |
| 2 | 20 | 28 | 8.32 | 150*150*150 | 2465.19 | 457.00 | 0.0225 | 20.31 | 20.41 | |
| 3 | 20 | 28 | 8.54 | 150*150*150 | 2530.37 | 453.00 | 0.0225 | 20.13 | | 20.40 |
| 4 | 20 | 28 | 8.97 | 150*150*150 | 2657.78 | 459.00 | 0.0225 | 20.40 | | |
| 5 | 20 | 28 | 8.64 | 150*150*150 | 2560.00 | 460.00 | 0.0225 | 20.44 | 20.39 | |
| 6 | 20 | 28 | 8.32 | 150*150*150 | 2465.19 | 457.00 | 0.0225 | 20.31 | | |

**Results**: 28-days Compressive strength of Concrete is 20.40 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site

ii. The results relate only to the items tested

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Exeecutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 3
**Casting Date** 15-Sep-2022
**Tested Date** 13-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.74 | 150*150*150 | 2589.63 | 470.00 | 0.0225 | 20.89 | | |
| 2 | 20 | 28 | 8.41 | 150*150*150 | 2491.85 | 459.00 | 0.0225 | 20.40 | 20.50 | |
| 3 | 20 | 28 | 8.63 | 150*150*150 | 2557.04 | 455.00 | 0.0225 | 20.22 | | 20.49 |
| 4 | 20 | 28 | 9.06 | 150*150*150 | 2684.44 | 461.00 | 0.0225 | 20.49 | | |
| 5 | 20 | 28 | 8.73 | 150*150*150 | 2586.67 | 462.00 | 0.0225 | 20.53 | 20.47 | |
| 6 | 20 | 28 | 8.41 | 150*150*150 | 2491.85 | 459.00 | 0.0225 | 20.40 | | |

**Results**: 28-days Compressive strength of Concrete is 20.49 N/mm2
**Comments:** 28 days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Raft |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 4 |
| **Casting Date** | 15-Sep-2022 |
| **Tested Date** | 13-Oct-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.84 | 150*150*150 | 2619.26 | 472.00 | 0.0225 | 20.98 | 20.59 | 20.58 |
| 2 | 20 | 28 | 8.51 | 150*150*150 | 2521.48 | 461.00 | 0.0225 | 20.49 | | |
| 3 | 20 | 28 | 8.73 | 150*150*150 | 2586.67 | 457.00 | 0.0225 | 20.31 | | |
| 4 | 20 | 28 | 9.16 | 150*150*150 | 2714.07 | 463.00 | 0.0225 | 20.58 | 20.56 | |
| 5 | 20 | 28 | 8.83 | 150*150*150 | 2616.30 | 464.00 | 0.0225 | 20.62 | | |
| 6 | 20 | 28 | 8.51 | 150*150*150 | 2521.48 | 461.00 | 0.0225 | 20.49 | | |

**Results**: 28 days Compressive strength of Concrete is 20.58 N/mm2

**Comments:** 28 days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Client** Excecutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Raft
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 5
**Casting Date** 15-Sep-2022
**Tested Date** 13-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.93 | 150*150*150 | 2645.93 | 474.00 | 0.0225 | 21.07 | 20.68 | 20.67 |
| 2 | 20 | 28 | 8.60 | 150*150*150 | 2548.15 | 463.00 | 0.0225 | 20.58 | | |
| 3 | 20 | 28 | 8.82 | 150*150*150 | 2613.33 | 459.00 | 0.0225 | 20.40 | | |
| 4 | 20 | 28 | 9.25 | 150*150*150 | 2740.74 | 465.00 | 0.0225 | 20.67 | 20.65 | |
| 5 | 20 | 28 | 8.92 | 150*150*150 | 2642.96 | 466.00 | 0.0225 | 20.71 | | |
| 6 | 20 | 28 | 8.60 | 150*150*150 | 2548.15 | 463.00 | 0.0225 | 20.58 | | |

**Results**: 28-days Compressive strength of Concrete is 20.67 N/mm2
**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Pvt. Ltd,**

**Authorised Signature**

AEE (VRP) SD

# Mecadez Core Technology Private Limited

Project Management and Consultancy Services

## Summary of Frequencies of Field Tests and Lab Tests Conducted

**Name of the work:** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Job No:** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR

**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,

| Sl. No | Particulars of the Tests | M20 Concrete For Drian Wallt | | | |
|---|---|---|---|---|---|
| | | Quantity Cum | Frequency of Tests | Tests Required | Tests Carried Out |
| IV | Concrete | | | | |
| 1 | Compressive strength test | 131.48 | 1 to 5cum=1 sample<br>6 to 15 cum=2 sample<br>16 to 30cum=3 smaple<br>31 to 50cum= 4 sample<br>51cum and above= one additonal sample for every additional 50 cum or part therof | 6 | 6 |
| | 7-days | | | | |
| | 28-days | | | | |

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

consultant

contractor

ASSISTANT ENGINEER

ASSISTANT ENGINEER

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 1 |
| **Casting Date** | 27 Sep 2022 |
| **Tested Date** | 4-Oct-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.65 | 150*150*150 | 2562.96 | 304.00 | 0.0225 | 13.51 | 13.64 | 13.56 |
| 2 | 20 | 7 | 8.46 | 150*150*150 | 2506.67 | 308.00 | 0.0225 | 13.69 | | |
| 3 | 20 | 7 | 8.16 | 150*150*150 | 2417.78 | 309.00 | 0.0225 | 13.73 | | |
| 4 | 20 | 7 | 8.79 | 150*150*150 | 2604.44 | 301.00 | 0.0225 | 13.38 | 13.48 | |
| 5 | 20 | 7 | 8.18 | 150*150*150 | 2423.70 | 307.00 | 0.0225 | 13.64 | | |
| 6 | 20 | 7 | 8.93 | 150*150*150 | 2645.93 | 302.00 | 0.0225 | 13.42 | | |

**Results**: 7-days Compressive strength of Concrete is 13.56 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Exceeutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Wallt
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 2
**Casting Date** 27-Sep-2022
**Tested Date** 4-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.95 | 150*150*150 | 2651.85 | 310.00 | 0.0225 | 13.78 | 13.51 | 13.61 |
| 2 | 20 | 7 | 8.47 | 150*150*150 | 2509.63 | 300.00 | 0.0225 | 13.33 | | |
| 3 | 20 | 7 | 8.26 | 150*150*150 | 2447.41 | 302.00 | 0.0225 | 13.42 | | |
| 4 | 20 | 7 | 8.24 | 150*150*150 | 2441.48 | 308.00 | 0.0225 | 13.69 | 13.70 | |
| 5 | 20 | 7 | 8.67 | 150*150*150 | 2568.89 | 305.00 | 0.0225 | 13.56 | | |
| 6 | 20 | 7 | 8.95 | 150*150*150 | 2651.85 | 312.00 | 0.0225 | 13.87 | | |

**Results**: 7-days Compressive strength of Concrete is 13.61 N/mm2
**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory
iv. Any query regarding the report must be reported immediately

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6) -1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 3 |
| **Casting Date** | 27-Sep-2022 |
| **Tested Date** | 4-Oct-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 9.04 | 150*150*150 | 2678.52 | 312.00 | 0.0225 | 13.87 | 13.60 | 13.70 |
| 2 | 20 | 7 | 8.56 | 150*150*150 | 2536.30 | 302.00 | 0.0225 | 13.42 | | |
| 3 | 20 | 7 | 8.35 | 150*150*150 | 2474.07 | 304.00 | 0.0225 | 13.51 | | |
| 4 | 20 | 7 | 8.33 | 150*150*150 | 2468.15 | 310.00 | 0.0225 | 13.78 | 13.79 | |
| 5 | 20 | 7 | 8.76 | 150*150*150 | 2595.56 | 307.00 | 0.0225 | 13.64 | | |
| 6 | 20 | 7 | 9.04 | 150*150*150 | 2678.52 | 314.00 | 0.0225 | 13.96 | | |

**Results**: 7-days Compressive strength of Concrete is 13.70 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exceeutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 4 |
| **Casting Date** | 27-Sep-2022 |
| **Tested Date** | 4-Oct-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 9.14 | 150*150*150 | 2708.15 | 314.00 | 0.0225 | 13.96 | 13.69 | 13.79 |
| 2 | 20 | 7 | 8.66 | 150*150*150 | 2565.93 | 304.00 | 0.0225 | 13.51 | | |
| 3 | 20 | 7 | 8.45 | 150*150*150 | 2503.70 | 306.00 | 0.0225 | 13.60 | | |
| 4 | 20 | 7 | 8.43 | 150*150*150 | 2497.78 | 312.00 | 0.0225 | 13.87 | 13.88 | |
| 5 | 20 | 7 | 8.86 | 150*150*150 | 2625.19 | 309.00 | 0.0225 | 13.73 | | |
| 6 | 20 | 7 | 9.14 | 150*150*150 | 2708.15 | 316.00 | 0.0225 | 14.04 | | |

**Results:** 7-days Compressive strength of Concrete is 13.79 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 5 |
| **Casting Date** | 27-Sep-2022 |
| **Tested Date** | 4-Oct-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 9.23 | 150*150*150 | 2734.81 | 316.00 | 0.0225 | 14.04 | | |
| 2 | 20 | 7 | 8.75 | 150*150*150 | 2592.59 | 306.00 | 0.0225 | 13.60 | 13.78 | |
| 3 | 20 | 7 | 8.54 | 150*150*150 | 2530.37 | 308.00 | 0.0225 | 13.69 | | |
| 4 | 20 | 7 | 8.52 | 150*150*150 | 2524.44 | 314.00 | 0.0225 | 13.96 | | 13.87 |
| 5 | 20 | 7 | 8.95 | 150*150*150 | 2651.85 | 311.00 | 0.0225 | 13.82 | 13.97 | |
| 6 | 20 | 7 | 9.23 | 150*150*150 | 2734.81 | 318.00 | 0.0225 | 14.13 | | |

**Results**: 7 days Compressive strength of Concrete is 13.87 N/mm2

**Comments:** 7 days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exceeutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P 3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 6 |
| **Casting Date** | 27-Sep-2022 |
| **Tested Date** | 4-Oct-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 9.33 | 150*150*150 | 2764.44 | 318.00 | 0.0225 | 14.13 | 13.87 | 13.96 |
| 2 | 20 | 7 | 8.85 | 150*150*150 | 2622.22 | 308.00 | 0.0225 | 13.69 | | |
| 3 | 20 | 7 | 8.64 | 150*150*150 | 2560.00 | 310.00 | 0.0225 | 13.78 | | |
| 4 | 20 | 7 | 8.62 | 150*150*150 | 2554.07 | 316.00 | 0.0225 | 14.04 | 14.06 | |
| 5 | 20 | 7 | 9.05 | 150*150*150 | 2681.48 | 313.00 | 0.0225 | 13.91 | | |
| 6 | 20 | 7 | 9.33 | 150*150*150 | 2764.44 | 320.00 | 0.0225 | 14.22 | | |

**Results**: 7-days Compressive strength of Concrete is 13.96 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Excecutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Wallt
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 1
**Casting Date** 27-Sep-2022
**Tested Date** 25-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.62 | 150*150*150 | 2554.07 | 456.00 | 0.0225 | 20.27 | 20.39 | 20.30 |
| 2 | 20 | 28 | 8.49 | 150*150*150 | 2515.56 | 458.00 | 0.0225 | 20.36 | | |
| 3 | 20 | 28 | 8.76 | 150*150*150 | 2595.56 | 462.00 | 0.0225 | 20.53 | | |
| 4 | 20 | 28 | 8.56 | 150*150*150 | 2536.30 | 452.00 | 0.0225 | 20.09 | 20.21 | |
| 5 | 20 | 28 | 8.24 | 150*150*150 | 2441.48 | 450.00 | 0.0225 | 20.00 | | |
| 6 | 20 | 28 | 8.26 | 150*150*150 | 2447.41 | 462.00 | 0.0225 | 20.53 | | |

**Results**: 28-days Compressive strength of Concrete is 20.30 N/mm2
**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report

## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Exceeutive Engineer Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Wallt
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 2
**Casting Date** 27-Sep-2022
**Tested Date** 25-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.65 | 150*150*150 | 2562.96 | 468.00 | 0.0225 | 20.80 | 20.41 | 20.40 |
| 2 | 20 | 28 | 8.32 | 150*150*150 | 2465.19 | 457.00 | 0.0225 | 20.31 | | |
| 3 | 20 | 28 | 8.54 | 150*150*150 | 2530.37 | 453.00 | 0.0225 | 20.13 | | |
| 4 | 20 | 28 | 8.97 | 150*150*150 | 2657.78 | 459.00 | 0.0225 | 20.40 | 20.39 | |
| 5 | 20 | 28 | 8.64 | 150*150*150 | 2560.00 | 460.00 | 0.0225 | 20.44 | | |
| 6 | 20 | 28 | 8.32 | 150*150*150 | 2465.19 | 457.00 | 0.0225 | 20.31 | | |

**Results**: 28-days Compressive strength of Concrete is 20.40 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested
iii. This test report should not be reproduced except in full, without written approval of this laboratory
iv. Any query regarding the report must be reported immediately

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exceeutive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 3 |
| **Casting Date** | 27-Sep-2022 |
| **Tested Date** | 25-Oct-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.74 | 150*150*150 | 2589.63 | 470.00 | 0.0225 | 20.89 | 20.50 | 20.49 |
| 2 | 20 | 28 | 8.41 | 150*150*150 | 2491.85 | 459.00 | 0.0225 | 20.40 | | |
| 3 | 20 | 28 | 8.63 | 150*150*150 | 2557.04 | 455.00 | 0.0225 | 20.22 | | |
| 4 | 20 | 28 | 9.06 | 150*150*150 | 2684.44 | 461.00 | 0.0225 | 20.49 | 20.47 | |
| 5 | 20 | 28 | 8.73 | 150*150*150 | 2586.67 | 462.00 | 0.0225 | 20.53 | | |
| 6 | 20 | 28 | 8.41 | 150*150*150 | 2491.85 | 459.00 | 0.0225 | 20.40 | | |

**Results:** 28-days Compressive strength of Concrete is 20.49 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P 3877/2022 23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 4 |
| **Casting Date** | 27-Sep-2022 |
| **Tested Date** | 25-Oct-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.84 | 150*150*150 | 2619.26 | 472.00 | 0.0225 | 20.98 | 20.59 | 20.58 |
| 2 | 20 | 28 | 8.51 | 150*150*150 | 2521.48 | 461.00 | 0.0225 | 20.49 | | |
| 3 | 20 | 28 | 8.73 | 150*150*150 | 2586.67 | 457.00 | 0.0225 | 20.31 | | |
| 4 | 20 | 28 | 9.16 | 150*150*150 | 2714.07 | 463.00 | 0.0225 | 20.58 | 20.56 | |
| 5 | 20 | 28 | 8.83 | 150*150*150 | 2616.30 | 464.00 | 0.0225 | 20.62 | | |
| 6 | 20 | 28 | 8.51 | 150*150*150 | 2521.48 | 461.00 | 0.0225 | 20.49 | | |

**Results**: 28-days Compressive strength of Concrete is 20.58 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report

## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Executive Engineer Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P 3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Wallt
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 5
**Casting Date** 27 Sep 2022
**Tested Date** 25 Oct 2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.93 | 150*150*150 | 2645.93 | 474.00 | 0.0225 | 21.07 | | |
| 2 | 20 | 28 | 8.60 | 150*150*150 | 2548.15 | 463.00 | 0.0225 | 20.58 | 20.68 | |
| 3 | 20 | 28 | 8.82 | 150*150*150 | 2613.33 | 459.00 | 0.0225 | 20.40 | | 20.67 |
| 4 | 20 | 28 | 9.25 | 150*150*150 | 2740.74 | 465.00 | 0.0225 | 20.67 | | |
| 5 | 20 | 28 | 8.92 | 150*150*150 | 2642.96 | 466.00 | 0.0225 | 20.71 | 20.65 | |
| 6 | 20 | 28 | 8.60 | 150*150*150 | 2548.15 | 463.00 | 0.0225 | 20.58 | | |

**Results** 28 days Compressive strength of Concrete is 20.67 N/mm2
**Comments:** 28 days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

Authorised Signature

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Excecutive Engineer Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/OR
**Mix Type** M20 Concrete For Drian Wallt
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 6
**Casting Date** 27-Sep-2022
**Tested Date** 25-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 9.03 | 150*150*150 | 2675.56 | 476.00 | 0.0225 | 21.16 | | |
| 2 | 20 | 28 | 8.70 | 150*150*150 | 2577.78 | 465.00 | 0.0225 | 20.67 | 20.77 | |
| 3 | 20 | 28 | 8.92 | 150*150*150 | 2642.96 | 461.00 | 0.0225 | 20.49 | | 20.76 |
| 4 | 20 | 28 | 9.35 | 150*150*150 | 2770.37 | 467.00 | 0.0225 | 20.76 | | |
| 5 | 20 | 28 | 9.02 | 150*150*150 | 2672.59 | 468.00 | 0.0225 | 20.80 | 20.74 | |
| 6 | 20 | 28 | 8.70 | 150*150*150 | 2577.78 | 465.00 | 0.0225 | 20.67 | | |

**Results**: 28-days Compressive strength of Concrete is 20.76 N/mm2
**Comments**: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:
i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested
iii. This test report should not be reproduced except in full, without written approval of this laboratory
iv. Any query regarding the report must be reported immediately

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Mecadez Core Technology Private Limited

**Project Management and Consultancy Services**

**Summary of Frequencies of Field Tests and Lab Tests Conducted**

**Name of the work:** **PACKAGE NO.06 (CONSISTS OF 14 WORKS)**

**Job No:** **MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR**

**Contractor** **M/s. SMLP Asphalts Prop. Sri B B Umesha,**

| Sl. No | Particulars of the Tests | M20 Concrete For Drian Wallt | | | |
|---|---|---|---|---|---|
| | | Quantity Cum | Frequency of Tests | Tests Required | Tests Carried Out |
| IV | **Concrete** | | | | |
| 1 | Compressive strength test | 60.90 | 1 to 5cum=1 sample<br>6 to 15 cum=2 sample<br>16 to 30cum=3 smaple<br>31 to 50cum= 4 sample<br>51cum and above= one additonal sample for every additional 50 cum or part therof | 5 | 5 |
| | 7-days | | | | |
| | 28-days | | | | |

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

consultant

contractor

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exceeutive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 1 |
| **Casting Date** | 6-Oct-2022 |
| **Tested Date** | 13-Oct-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.65 | 150*150*150 | 2562.96 | 305.00 | 0.0225 | 13.56 | 13.64 | 13.61 |
| 2 | 20 | 7 | 8.49 | 150*150*150 | 2515.56 | 307.00 | 0.0225 | 13.64 | | |
| 3 | 20 | 7 | 8.92 | 150*150*150 | 2642.96 | 309.00 | 0.0225 | 13.73 | | |
| 4 | 20 | 7 | 8.62 | 150*150*150 | 2554.07 | 300.00 | 0.0225 | 13.33 | 13.57 | |
| 5 | 20 | 7 | 8.79 | 150*150*150 | 2604.44 | 310.00 | 0.0225 | 13.78 | | |
| 6 | 20 | 7 | 8.13 | 150*150*150 | 2408.89 | 306.00 | 0.0225 | 13.60 | | |

**Results**: 7-days Compressive strength of Concrete is 13.61 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO 06 (CONSISTS OF 14 WORKS) |
| **Client** | Exceeutive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P 3877/2022 23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 2 |
| **Casting Date** | 6 Oct 2022 |
| **Tested Date** | 13 Oct 2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.95 | 150*150*150 | 2651.85 | 300.00 | 0.0225 | 13.33 | | |
| 2 | 20 | 7 | 8.46 | 150*150*150 | 2506.67 | 311.00 | 0.0225 | 13.82 | 13.57 | |
| 3 | 20 | 7 | 8.21 | 150*150*150 | 2432.59 | 305.00 | 0.0225 | 13.56 | | 13.64 |
| 4 | 20 | 7 | 8.36 | 150*150*150 | 2477.04 | 308.00 | 0.0225 | 13.69 | | |
| 5 | 20 | 7 | 8.47 | 150*150*150 | 2509.63 | 306.00 | 0.0225 | 13.60 | 13.72 | |
| 6 | 20 | 7 | 8.26 | 150*150*150 | 2447.41 | 312.00 | 0.0225 | 13.87 | | |

**Results**: 7-days Compressive strength of Concrete is 13.64 N/mm2

**Comments:** 7 days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 3 |
| **Casting Date** | 6-Oct-2022 |
| **Tested Date** | 13-Oct-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 9.04 | 150*150*150 | 2678.52 | 302.00 | 0.0225 | 13.42 | 13.66 | 13.73 |
| 2 | 20 | 7 | 8.55 | 150*150*150 | 2533.33 | 313.00 | 0.0225 | 13.91 | | |
| 3 | 20 | 7 | 8.30 | 150*150*150 | 2459.26 | 307.00 | 0.0225 | 13.64 | | |
| 4 | 20 | 7 | 8.45 | 150*150*150 | 2503.70 | 310.00 | 0.0225 | 13.78 | 13.81 | |
| 5 | 20 | 7 | 8.56 | 150*150*150 | 2536.30 | 308.00 | 0.0225 | 13.69 | | |
| 6 | 20 | 7 | 8.35 | 150*150*150 | 2474.07 | 314.00 | 0.0225 | 13.96 | | |

**Results**: 7-days Compressive strength of Concrete is 13.73 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Excecutive Engineer Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P 3877/2022 23/QR
**Mix Type** M20 Concrete For Drian Wallt
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 4
**Casting Date** 6 Oct 2022
**Tested Date** 13 Oct 2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 9.14 | 150*150*150 | 2708.15 | 304.00 | 0.0225 | 13.51 | 13.75 | 13.82 |
| 2 | 20 | 7 | 8.65 | 150*150*150 | 2562.96 | 315.00 | 0.0225 | 14.00 | | |
| 3 | 20 | 7 | 8.40 | 150*150*150 | 2488.89 | 309.00 | 0.0225 | 13.73 | | |
| 4 | 20 | 7 | 8.55 | 150*150*150 | 2533.33 | 312.00 | 0.0225 | 13.87 | 13.90 | |
| 5 | 20 | 7 | 8.66 | 150*150*150 | 2565.93 | 310.00 | 0.0225 | 13.78 | | |
| 6 | 20 | 7 | 8.45 | 150*150*150 | 2503.70 | 316.00 | 0.0225 | 14.04 | | |

**Results** 7 days Compressive strength of Concrete is 13.82 N/mm2
**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

Note:
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exeecutive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 5 |
| **Casting Date** | 6 Oct 2022 |
| **Tested Date** | 13 Oct 2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 9.23 | 150*150*150 | 2734.81 | 306.00 | 0.0225 | 13.60 | 13.84 | 13.91 |
| 2 | 20 | 7 | 8.74 | 150*150*150 | 2589.63 | 317.00 | 0.0225 | 14.09 | | |
| 3 | 20 | 7 | 8.49 | 150*150*150 | 2515.56 | 311.00 | 0.0225 | 13.82 | | |
| 4 | 20 | 7 | 8.64 | 150*150*150 | 2560.00 | 314.00 | 0.0225 | 13.96 | 13.99 | |
| 5 | 20 | 7 | 8.75 | 150*150*150 | 2592.59 | 312.00 | 0.0225 | 13.87 | | |
| 6 | 20 | 7 | 8.54 | 150*150*150 | 2530.37 | 318.00 | 0.0225 | 14.13 | | |

**Results**: 7-days Compressive strength of Concrete is 13.91 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory

iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Excecutive Engineer Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P 3877/2022 23/QR
**Mix Type** M20 Concrete For Drian Wallt
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 6
**Casting Date** 6-Oct-2022
**Tested Date** 13-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 9.33 | 150*150*150 | 2764.44 | 308.00 | 0.0225 | 13.69 | 13.93 | 14.00 |
| 2 | 20 | 7 | 8.84 | 150*150*150 | 2619.26 | 319.00 | 0.0225 | 14.18 | | |
| 3 | 20 | 7 | 8.59 | 150*150*150 | 2545.19 | 313.00 | 0.0225 | 13.91 | | |
| 4 | 20 | 7 | 8.74 | 150*150*150 | 2589.63 | 316.00 | 0.0225 | 14.04 | 14.07 | |
| 5 | 20 | 7 | 8.85 | 150*150*150 | 2622.22 | 314.00 | 0.0225 | 13.96 | | |
| 6 | 20 | 7 | 8.64 | 150*150*150 | 2560.00 | 320.00 | 0.0225 | 14.22 | | |

**Results**: 7-days Compressive strength of Concrete is 14.00 N/mm2
**Comments:** 7 days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Exeecutive Engineer Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P 3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Wallt
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 1
**Casting Date** 6-Oct-2022
**Tested Date** 3-Nov-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.95 | 150*150*150 | 2651.85 | 455.00 | 0.0225 | 20.22 | 20.44 | 20.48 |
| 2 | 20 | 28 | 8.46 | 150*150*150 | 2506.67 | 460.00 | 0.0225 | 20.44 | | |
| 3 | 20 | 28 | 8.16 | 150*150*150 | 2417.78 | 465.00 | 0.0225 | 20.67 | | |
| 4 | 20 | 28 | 8.32 | 150*150*150 | 2465.19 | 452.00 | 0.0225 | 20.09 | 20.52 | |
| 5 | 20 | 28 | 8.79 | 150*150*150 | 2604.44 | 468.00 | 0.0225 | 20.80 | | |
| 6 | 20 | 28 | 8.22 | 150*150*150 | 2435.56 | 465.00 | 0.0225 | 20.67 | | |

**Results:** 28-days Compressive strength of Concrete is 20.48 N/mm2
**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Exeecutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P.3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Wallt
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
**Location** Laboratory
**Material** Concrete
**Sample No** 2
**Casting Date** 6 Oct 2022
**Tested Date** 3 Nov 2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.62 | 150*150*150 | 2554.07 | 466.00 | 0.0225 | 20.71 | 20.43 | 20.40 |
| 2 | 20 | 28 | 8.46 | 150*150*150 | 2506.67 | 450.00 | 0.0225 | 20.00 | | |
| 3 | 20 | 28 | 8.27 | 150*150*150 | 2450.37 | 463.00 | 0.0225 | 20.58 | | |
| 4 | 20 | 28 | 8.98 | 150*150*150 | 2660.74 | 465.00 | 0.0225 | 20.67 | 20.37 | |
| 5 | 20 | 28 | 8.55 | 150*150*150 | 2533.33 | 458.00 | 0.0225 | 20.36 | | |
| 6 | 20 | 28 | 8.95 | 150*150*150 | 2651.85 | 452.00 | 0.0225 | 20.09 | | |

**Results**: 28 days Compressive strength of Concrete is 20.40 N/mm2
**Comments:** 28 days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report

## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exceeutive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 3 |
| **Casting Date** | 6-Oct-2022 |
| **Tested Date** | 3-Nov-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.71 | 150*150*150 | 2580.74 | 468.00 | 0.0225 | 20.80 | 20.52 | 20.49 |
| 2 | 20 | 28 | 8.55 | 150*150*150 | 2533.33 | 452.00 | 0.0225 | 20.09 | | |
| 3 | 20 | 28 | 8.36 | 150*150*150 | 2477.04 | 465.00 | 0.0225 | 20.67 | | |
| 4 | 20 | 28 | 9.07 | 150*150*150 | 2687.41 | 467.00 | 0.0225 | 20.76 | 20.46 | |
| 5 | 20 | 28 | 8.64 | 150*150*150 | 2560.00 | 460.00 | 0.0225 | 20.44 | | |
| 6 | 20 | 28 | 9.04 | 150*150*150 | 2678.52 | 454.00 | 0.0225 | 20.18 | | |

**Results**: 28-days Compressive strength of Concrete is 20.49 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory

iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exceeutive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 4 |
| **Casting Date** | 6-Oct-2022 |
| **Tested Date** | 3 Nov 2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.81 | 150*150*150 | 2610.37 | 470.00 | 0.0225 | 20.89 | 20.61 | 20.58 |
| 2 | 20 | 28 | 8.65 | 150*150*150 | 2562.96 | 454.00 | 0.0225 | 20.18 | | |
| 3 | 20 | 28 | 8.46 | 150*150*150 | 2506.67 | 467.00 | 0.0225 | 20.76 | | |
| 4 | 20 | 28 | 9.17 | 150*150*150 | 2717.04 | 469.00 | 0.0225 | 20.84 | 20.55 | |
| 5 | 20 | 28 | 8.74 | 150*150*150 | 2589.63 | 462.00 | 0.0225 | 20.53 | | |
| 6 | 20 | 28 | 9.14 | 150*150*150 | 2708.15 | 456.00 | 0.0225 | 20.27 | | |

**Results**: 28-days Compressive strength of Concrete is 20.58 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Executive Engineer Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Wallt
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 5
**Casting Date** 6-Oct-2022
**Tested Date** 3-Nov-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.90 | 150*150*150 | 2637.04 | 472.00 | 0.0225 | 20.98 | 20.70 | 20.67 |
| 2 | 20 | 28 | 8.74 | 150*150*150 | 2589.63 | 456.00 | 0.0225 | 20.27 | | |
| 3 | 20 | 28 | 8.55 | 150*150*150 | 2533.33 | 469.00 | 0.0225 | 20.84 | | |
| 4 | 20 | 28 | 9.26 | 150*150*150 | 2743.70 | 471.00 | 0.0225 | 20.93 | 20.64 | |
| 5 | 20 | 28 | 8.83 | 150*150*150 | 2616.30 | 464.00 | 0.0225 | 20.62 | | |
| 6 | 20 | 28 | 9.23 | 150*150*150 | 2734.81 | 458.00 | 0.0225 | 20.36 | | |

**Results**: 28-days Compressive strength of Concrete is 20.67 N/mm2
**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO 06 (CONSISTS OF 14 WORKS)
**Client** Exeecutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Wallt
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 6
**Casting Date** 6 Oct 2022
**Tested Date** 3 Nov 2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 9.00 | 150*150*150 | 2666.67 | 474.00 | 0.0225 | 21.07 | 20.79 | 20.76 |
| 2 | 20 | 28 | 8.84 | 150*150*150 | 2619.26 | 458.00 | 0.0225 | 20.36 | | |
| 3 | 20 | 28 | 8.65 | 150*150*150 | 2562.96 | 471.00 | 0.0225 | 20.93 | | |
| 4 | 20 | 28 | 9.36 | 150*150*150 | 2773.33 | 473.00 | 0.0225 | 21.02 | 20.73 | |
| 5 | 20 | 28 | 8.93 | 150*150*150 | 2645.93 | 466.00 | 0.0225 | 20.71 | | |
| 6 | 20 | 28 | 9.33 | 150*150*150 | 2764.44 | 460.00 | 0.0225 | 20.44 | | |

**Results**: 28 days Compressive strength of Concrete is 20.76 N/mm2
**Comments**: 28 days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Mecadez Core Technology Private Limited

**Project Management and Consultancy Services**

**Summary of Frequencies of Field Tests and Lab Tests Conducted**

**Name of the work:** **PACKAGE NO.06 (CONSISTS OF 14 WORKS)**

**Job No:** **MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR**

**Contractor** **M/s. SMLP Asphalts Prop. Sri B B Umesha,**

| Sl. No | Particulars of the Tests | M20 Concrete For Drian Wallt | | | |
|---|---|---|---|---|---|
| | | Quantity Cum | Frequency of Tests | Tests Required | Tests Carried Out |
| IV | **Concrete** | | | | |
| 1 | Compressive strength test | 169.31 | 1 to 5cum=1 sample<br>6 to 15 cum=2 sample<br>16 to 30cum=3 smaple<br>31 to 50cum= 4 sample<br>51cum and above= one additonal sample for every additional 50 cum or part therof | 7 | 7 |
| | 7-days | | | | |
| | 28-days | | | | |

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

consultant

contractor

ASSISTANT ENGINEER

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 1 |
| **Casting Date** | 12-Dec-2022 |
| **Tested Date** | 19-Dec-2023 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.65 | 150*150*150 | 2562.96 | 304.00 | 0.0225 | 13.51 | 13.64 | 13.56 |
| 2 | 20 | 7 | 8.49 | 150*150*150 | 2515.56 | 308.00 | 0.0225 | 13.69 | | |
| 3 | 20 | 7 | 8.26 | 150*150*150 | 2447.41 | 309.00 | 0.0225 | 13.73 | | |
| 4 | 20 | 7 | 8.21 | 150*150*150 | 2432.59 | 301.00 | 0.0225 | 13.38 | 13.48 | |
| 5 | 20 | 7 | 8.35 | 150*150*150 | 2474.07 | 307.00 | 0.0225 | 13.64 | | |
| 6 | 20 | 7 | 8.47 | 150*150*150 | 2509.63 | 302.00 | 0.0225 | 13.42 | | |

**Results**: 7-days Compressive strength of Concrete is 13.56 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 2 |
| **Casting Date** | 12-Dec-2022 |
| **Tested Date** | 19-Dec-2023 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.95 | 150*150*150 | 2651.85 | 311.00 | 0.0225 | 13.82 | 13.64 | 13.67 |
| 2 | 20 | 7 | 8.62 | 150*150*150 | 2554.07 | 306.00 | 0.0225 | 13.60 | | |
| 3 | 20 | 7 | 8.84 | 150*150*150 | 2619.26 | 304.00 | 0.0225 | 13.51 | | |
| 4 | 20 | 7 | 8.53 | 150*150*150 | 2527.41 | 308.00 | 0.0225 | 13.69 | 13.69 | |
| 5 | 20 | 7 | 8.15 | 150*150*150 | 2414.81 | 306.00 | 0.0225 | 13.60 | | |
| 6 | 20 | 7 | 8.79 | 150*150*150 | 2604.44 | 310.00 | 0.0225 | 13.78 | | |

**Results**: 7-days Compressive strength of Concrete is 13.67 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 3 |
| **Casting Date** | 12-Dec-2022 |
| **Tested Date** | 19-Dec-2023 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 9.04 | 150*150*150 | 2678.52 | 313.00 | 0.0225 | 13.91 | 13.73 | 13.76 |
| 2 | 20 | 7 | 8.71 | 150*150*150 | 2580.74 | 308.00 | 0.0225 | 13.69 | | |
| 3 | 20 | 7 | 8.93 | 150*150*150 | 2645.93 | 306.00 | 0.0225 | 13.60 | | |
| 4 | 20 | 7 | 8.62 | 150*150*150 | 2554.07 | 310.00 | 0.0225 | 13.78 | 13.78 | |
| 5 | 20 | 7 | 8.24 | 150*150*150 | 2441.48 | 308.00 | 0.0225 | 13.69 | | |
| 6 | 20 | 7 | 8.88 | 150*150*150 | 2631.11 | 312.00 | 0.0225 | 13.87 | | |

**Results**: 7-days Compressive strength of Concrete is 13.76 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 4 |
| **Casting Date** | 12-Dec-2022 |
| **Tested Date** | 19-Dec-2023 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 9.14 | 150*150*150 | 2708.15 | 315.00 | 0.0225 | 14.00 | 13.82 | 13.84 |
| 2 | 20 | 7 | 8.81 | 150*150*150 | 2610.37 | 310.00 | 0.0225 | 13.78 | | |
| 3 | 20 | 7 | 9.03 | 150*150*150 | 2675.56 | 308.00 | 0.0225 | 13.69 | | |
| 4 | 20 | 7 | 8.72 | 150*150*150 | 2583.70 | 312.00 | 0.0225 | 13.87 | 13.87 | |
| 5 | 20 | 7 | 8.34 | 150*150*150 | 2471.11 | 310.00 | 0.0225 | 13.78 | | |
| 6 | 20 | 7 | 8.98 | 150*150*150 | 2660.74 | 314.00 | 0.0225 | 13.96 | | |

**Results**: 7-days Compressive strength of Concrete is 13.84 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 5 |
| **Casting Date** | 12-Dec-2022 |
| **Tested Date** | 19-Dec-2023 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 9.23 | 150*150*150 | 2734.81 | 317.00 | 0.0225 | 14.09 | 13.91 | 13.93 |
| 2 | 20 | 7 | 8.90 | 150*150*150 | 2637.04 | 312.00 | 0.0225 | 13.87 | | |
| 3 | 20 | 7 | 9.12 | 150*150*150 | 2702.22 | 310.00 | 0.0225 | 13.78 | | |
| 4 | 20 | 7 | 8.81 | 150*150*150 | 2610.37 | 314.00 | 0.0225 | 13.96 | 13.96 | |
| 5 | 20 | 7 | 8.43 | 150*150*150 | 2497.78 | 312.00 | 0.0225 | 13.87 | | |
| 6 | 20 | 7 | 9.07 | 150*150*150 | 2687.41 | 316.00 | 0.0225 | 14.04 | | |

**Results:** 7-days Compressive strength of Concrete is 13.93 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 6 |
| **Casting Date** | 12-Dec-2022 |
| **Tested Date** | 19-Dec-2023 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 9.33 | 150*150*150 | 2764.44 | 319.00 | 0.0225 | 14.18 | 14.00 | 14.02 |
| 2 | 20 | 7 | 9.00 | 150*150*150 | 2666.67 | 314.00 | 0.0225 | 13.96 | | |
| 3 | 20 | 7 | 9.22 | 150*150*150 | 2731.85 | 312.00 | 0.0225 | 13.87 | | |
| 4 | 20 | 7 | 8.91 | 150*150*150 | 2640.00 | 316.00 | 0.0225 | 14.04 | 14.04 | |
| 5 | 20 | 7 | 8.53 | 150*150*150 | 2527.41 | 314.00 | 0.0225 | 13.96 | | |
| 6 | 20 | 7 | 9.17 | 150*150*150 | 2717.04 | 318.00 | 0.0225 | 14.13 | | |

**Results**: 7-days Compressive strength of Concrete is 14.02 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 7 |
| **Casting Date** | 12-Dec-2022 |
| **Tested Date** | 19-Dec-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 9.42 | 150*150*150 | 2791.11 | 321.00 | 0.0225 | 14.27 | 14.09 | 14.11 |
| 2 | 20 | 7 | 9.09 | 150*150*150 | 2693.33 | 316.00 | 0.0225 | 14.04 | | |
| 3 | 20 | 7 | 9.31 | 150*150*150 | 2758.52 | 314.00 | 0.0225 | 13.96 | | |
| 4 | 20 | 7 | 9.00 | 150*150*150 | 2666.67 | 318.00 | 0.0225 | 14.13 | 14.13 | |
| 5 | 20 | 7 | 8.62 | 150*150*150 | 2554.07 | 316.00 | 0.0225 | 14.04 | | |
| 6 | 20 | 7 | 9.26 | 150*150*150 | 2743.70 | 320.00 | 0.0225 | 14.22 | | |

**Results**: 7-days Compressive strength of Concrete is 14.11 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

MECADEZ

[illegible]

## Test Report
## Concrete Compressive strength

Project Name: PACKAGE NO 06 CONSISTS OF 14 WORKS

Client: Executive Engineer - Bhatagaonpura Division

Job No: [illegible]

Mix Type: M20 Concrete for Drain Wall

Contractor: M/s [illegible] Asphalt Pvt. Ltd. [illegible]

Test Method: [illegible] & Specification for Road & Bridge Works [illegible]

Location: Laboratory

Material: Concrete

Sample No: [illegible]

Casting Date: [illegible]

Tested Date: [illegible]

| Cube | Concrete Grade | Age at Test (Days) | Weight (Kg) | Dimension (LxWxH) | Density (Kg/m³) | Max Load (KN) | Area (m²) | Compressive Strength (N/mm²) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | - | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 14.09 | 14.11 |
| 2 | 20 | - | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 14.04 | | |
| 3 | 20 | - | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 13.96 | | |
| 4 | 20 | - | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 14.13 | 14.13 | |
| 5 | 20 | - | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 14.04 | | |
| 6 | 20 | - | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 14.22 | | |

**Results:** 7-days Compressive strength of Concrete is [illegible] N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

Note

- The results indicated above are based on the tests carried out on the sample as site
- The results relate only to the items tested
- This test report should not be reproduced except in full without written approval of this laboratory
- Any query regarding the report must be reported immediately

**Mecadez Core Technology Private Limited**

Authorised Signature

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 1 |
| **Casting Date** | 12-Dec-2022 |
| **Tested Date** | 9-Jan-2023 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.95 | 150*150*150 | 2651.85 | 451.00 | 0.0225 | 20.04 | 20.52 | 20.46 |
| 2 | 20 | 28 | 8.45 | 150*150*150 | 2503.70 | 468.00 | 0.0225 | 20.80 | | |
| 3 | 20 | 28 | 8.26 | 150*150*150 | 2447.41 | 466.00 | 0.0225 | 20.71 | | |
| 4 | 20 | 28 | 8.21 | 150*150*150 | 2432.59 | 457.00 | 0.0225 | 20.31 | 20.40 | |
| 5 | 20 | 28 | 8.37 | 150*150*150 | 2480.00 | 451.00 | 0.0225 | 20.04 | | |
| 6 | 20 | 28 | 8.62 | 150*150*150 | 2554.07 | 469.00 | 0.0225 | 20.84 | | |

**Results:** 28-days Compressive strength of Concrete is 20.46 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 2 |
| **Casting Date** | 12-Dec-2022 |
| **Tested Date** | 9-Jan-2023 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.65 | 150*150*150 | 2562.96 | 467.00 | 0.0225 | 20.76 | 20.39 | 20.45 |
| 2 | 20 | 28 | 8.32 | 150*150*150 | 2465.19 | 458.00 | 0.0225 | 20.36 | | |
| 3 | 20 | 28 | 8.54 | 150*150*150 | 2530.37 | 451.00 | 0.0225 | 20.04 | | |
| 4 | 20 | 28 | 8.97 | 150*150*150 | 2657.78 | 459.00 | 0.0225 | 20.40 | 20.52 | |
| 5 | 20 | 28 | 8.64 | 150*150*150 | 2560.00 | 468.00 | 0.0225 | 20.80 | | |
| 6 | 20 | 28 | 8.32 | 150*150*150 | 2465.19 | 458.00 | 0.0225 | 20.36 | | |

**Results**: 28-days Compressive strength of Concrete is 20.45 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 3 |
| **Casting Date** | 12-Dec-2022 |
| **Tested Date** | 9-Jan-2023 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.74 | 150*150*150 | 2589.63 | 469.00 | 0.0225 | 20.84 | 20.47 | 20.54 |
| 2 | 20 | 28 | 8.41 | 150*150*150 | 2491.85 | 460.00 | 0.0225 | 20.44 | | |
| 3 | 20 | 28 | 8.63 | 150*150*150 | 2557.04 | 453.00 | 0.0225 | 20.13 | | |
| 4 | 20 | 28 | 9.06 | 150*150*150 | 2684.44 | 461.00 | 0.0225 | 20.49 | 20.61 | |
| 5 | 20 | 28 | 8.73 | 150*150*150 | 2586.67 | 470.00 | 0.0225 | 20.89 | | |
| 6 | 20 | 28 | 8.41 | 150*150*150 | 2491.85 | 460.00 | 0.0225 | 20.44 | | |

**Results**: 28-days Compressive strength of Concrete is 20.54 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Executive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P 3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 4 |
| **Casting Date** | 12-Dec-2022 |
| **Tested Date** | 9-Jan-2023 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.84 | 150*150*150 | 2619.26 | 471.00 | 0.0225 | 20.93 | 20.56 | 20.63 |
| 2 | 20 | 28 | 8.51 | 150*150*150 | 2521.48 | 462.00 | 0.0225 | 20.53 | | |
| 3 | 20 | 28 | 8.73 | 150*150*150 | 2586.67 | 455.00 | 0.0225 | 20.22 | | |
| 4 | 20 | 28 | 9.16 | 150*150*150 | 2714.07 | 463.00 | 0.0225 | 20.58 | 20.70 | |
| 5 | 20 | 28 | 8.83 | 150*150*150 | 2616.30 | 472.00 | 0.0225 | 20.98 | | |
| 6 | 20 | 28 | 8.51 | 150*150*150 | 2521.48 | 462.00 | 0.0225 | 20.53 | | |

**Results**: 28-days Compressive strength of Concrete is 20.63 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report

## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 5 |
| **Casting Date** | 12-Dec-2022 |
| **Tested Date** | 9-Jan-2023 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.93 | 150*150*150 | 2645.93 | 473.00 | 0.0225 | 21.02 | 20.65 | 20.72 |
| 2 | 20 | 28 | 8.60 | 150*150*150 | 2548.15 | 464.00 | 0.0225 | 20.62 | | |
| 3 | 20 | 28 | 8.82 | 150*150*150 | 2613.33 | 457.00 | 0.0225 | 20.31 | | |
| 4 | 20 | 28 | 9.25 | 150*150*150 | 2740.74 | 465.00 | 0.0225 | 20.67 | 20.79 | |
| 5 | 20 | 28 | 8.92 | 150*150*150 | 2642.96 | 474.00 | 0.0225 | 21.07 | | |
| 6 | 20 | 28 | 8.60 | 150*150*150 | 2548.15 | 464.00 | 0.0225 | 20.62 | | |

**Results**: 28-days Compressive strength of Concrete is 20.72 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note**:

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 6 |
| **Casting Date** | 12-Dec-2022 |
| **Tested Date** | 9-Jan-2023 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 9.03 | 150*150*150 | 2675.56 | 475.00 | 0.0225 | 21.11 | 20.74 | 20.81 |
| 2 | 20 | 28 | 8.70 | 150*150*150 | 2577.78 | 466.00 | 0.0225 | 20.71 | | |
| 3 | 20 | 28 | 8.92 | 150*150*150 | 2642.96 | 459.00 | 0.0225 | 20.40 | | |
| 4 | 20 | 28 | 9.35 | 150*150*150 | 2770.37 | 467.00 | 0.0225 | 20.76 | 20.87 | |
| 5 | 20 | 28 | 9.02 | 150*150*150 | 2672.59 | 476.00 | 0.0225 | 21.16 | | |
| 6 | 20 | 28 | 8.70 | 150*150*150 | 2577.78 | 466.00 | 0.0225 | 20.71 | | |

**Results**: 28-days Compressive strength of Concrete is 20.81 N/mm2

**Comments**: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wallt |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 7 |
| **Casting Date** | 12-Dec-2022 |
| **Tested Date** | 9-Jan-2023 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 9.12 | 150*150*150 | 2702.22 | 477.00 | 0.0225 | 21.20 | 20.83 | 20.90 |
| 2 | 20 | 28 | 8.79 | 150*150*150 | 2604.44 | 468.00 | 0.0225 | 20.80 | | |
| 3 | 20 | 28 | 9.01 | 150*150*150 | 2669.63 | 461.00 | 0.0225 | 20.49 | | |
| 4 | 20 | 28 | 9.44 | 150*150*150 | 2797.04 | 469.00 | 0.0225 | 20.84 | 20.96 | |
| 5 | 20 | 28 | 9.11 | 150*150*150 | 2699.26 | 478.00 | 0.0225 | 21.24 | | |
| 6 | 20 | 28 | 8.79 | 150*150*150 | 2604.44 | 468.00 | 0.0225 | 20.80 | | |

**Results**: 28-days Compressive strength of Concrete is 20.90 N/mm2

**Comments**: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Mecadez Core Technology Private Limited

Project Management and Consultancy Services

## Summary of Frequencies of Field Tests and Lab Tests Conducted

**Name of the work:** PACKAGE NO.06 (CONSISTS OF 14 WORKS)

**Job No:** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR

**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,

| Sl. No | Particulars of the Tests | M20 Concrete For Drian Wall | | | |
|---|---|---|---|---|---|
| | | Quantity Cum | Frequency of Tests | Tests Required | Tests Carried Out |
| IV | **Concrete** | | | | |
| 1 | Compressive strength test | 198.45 | 1 to 5cum=1 sample<br>6 to 15 cum=2 sample<br>16 to 30cum=3 smaple<br>31 to 50cum= 4 sample<br>51cum and above= one additonal sample for every additional 50 cum or part therof | 7 | 7 |
| | 7-days | | | | |
| | 28-days | | | | |

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

consultant

contractor

ASSISTANT ENGINEER

ASSISTANT ENGINEER

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wall |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 1 |
| **Casting Date** | 23-Dec-2022 |
| **Tested Date** | 30-Dec-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.52 | 150*150*150 | 2524.44 | 304.00 | 0.0225 | 13.51 | 13.66 | 13.66 |
| 2 | 20 | 7 | 8.41 | 150*150*150 | 2491.85 | 308.00 | 0.0225 | 13.69 | | |
| 3 | 20 | 7 | 8.36 | 150*150*150 | 2477.04 | 310.00 | 0.0225 | 13.78 | | |
| 4 | 20 | 7 | 8.47 | 150*150*150 | 2509.63 | 313.00 | 0.0225 | 13.91 | 13.66 | |
| 5 | 20 | 7 | 8.69 | 150*150*150 | 2574.81 | 307.00 | 0.0225 | 13.64 | | |
| 6 | 20 | 7 | 8.21 | 150*150*150 | 2432.59 | 302.00 | 0.0225 | 13.42 | | |

**Results**: 7-days Compressive strength of Concrete is 13.66 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exceeutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wall |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 2 |
| **Casting Date** | 23-Dec-2022 |
| **Tested Date** | 30-Dec-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.21 | 150*150*150 | 2432.59 | 310.00 | 0.0225 | 13.78 | 13.59 | 13.63 |
| 2 | 20 | 7 | 8.23 | 150*150*150 | 2438.52 | 300.00 | 0.0225 | 13.33 | | |
| 3 | 20 | 7 | 8.56 | 150*150*150 | 2536.30 | 307.00 | 0.0225 | 13.64 | | |
| 4 | 20 | 7 | 8.45 | 150*150*150 | 2503.70 | 306.00 | 0.0225 | 13.60 | 13.67 | |
| 5 | 20 | 7 | 8.79 | 150*150*150 | 2604.44 | 305.00 | 0.0225 | 13.56 | | |
| 6 | 20 | 7 | 8.95 | 150*150*150 | 2651.85 | 312.00 | 0.0225 | 13.87 | | |

**Results**: 7-days Compressive strength of Concrete is 13.63 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wall |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 3 |
| **Casting Date** | 23-Dec-2022 |
| **Tested Date** | 30-Dec-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.30 | 150*150*150 | 2459.26 | 312.00 | 0.0225 | 13.87 | 13.67 | 13.72 |
| 2 | 20 | 7 | 8.32 | 150*150*150 | 2465.19 | 302.00 | 0.0225 | 13.42 | | |
| 3 | 20 | 7 | 8.65 | 150*150*150 | 2562.96 | 309.00 | 0.0225 | 13.73 | | |
| 4 | 20 | 7 | 8.54 | 150*150*150 | 2530.37 | 308.00 | 0.0225 | 13.69 | 13.76 | |
| 5 | 20 | 7 | 8.88 | 150*150*150 | 2631.11 | 307.00 | 0.0225 | 13.64 | | |
| 6 | 20 | 7 | 9.04 | 150*150*150 | 2678.52 | 314.00 | 0.0225 | 13.96 | | |

**Results**: 7-days Compressive strength of Concrete is 13.72 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

ISO 9001:2015 & ISO/IEC 27001:2013
Quality Management System
Certified Company

MECADEZ
Engineering Company
MECADEZ CORE TECHNOLOGY PRIVATE LIMITED
WORLD BUSINESS MANAGEMENT SYSTEM

## Test Report
## Concrete Compressive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO 06 (CONSISTS OF 14 WORKS) |
| **Client** | Executive Engineer, Bystaranapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P 3877/2022-23/OP |
| **Mix Type** | M20 Concrete For Drain Wall |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri H B Umesha, |
| **Test Method** | IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. 7 |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 4 |
| **Casting Date** | 23 Dec 2022 |
| **Tested Date** | 30 Dec 2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m³) | Max. Load (KN) | Area (m²) | Compressive Strength (N/mm²) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.40 | 150*150*150 | 2488.89 | 3[illegible].00 | 0.0225 | [illegible] | | |
| 2 | 20 | 7 | 8.42 | 150*150*150 | 2494.8[illegible] | 2[illegible].00 | 0.0225 | [illegible] | [illegible] | |
| 3 | 20 | 7 | 8.75 | 150*150*150 | 2[illegible] | 3[illegible].00 | 0.0225 | [illegible] | | |
| 4 | 20 | 7 | 8.64 | 150*150*150 | 2[illegible] | 3[illegible].00 | 0.0225 | [illegible] | | [illegible] |
| 5 | 20 | 7 | 8.98 | 150*150*150 | 2[illegible] | 2[illegible].00 | 0.0225 | [illegible] | [illegible] | |
| 6 | 20 | 7 | 9.14 | 150*150*150 | 2708.[illegible] | 3[illegible].00 | 0.0225 | [illegible] | | |

**Results**: 7 days Compressive strength of Concrete is [illegible] N/mm2

**Comments**: 7 days Compressive strength of M20 Concrete should not be less than 13.5 N/mm2

**Note**

i. The results indicated above are based on the tests carried out on the sample [illegible]

ii. The results relate only to the items tested

iii. This test report should not be reproduced except in full without written approval of this laboratory

iv. Any query regarding the report must be reported immediately

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

[illegible], 80, Aniketana, 14th 'B' Main, West of Chord Road, 2nd Stage, 2nd Phase, Mahalakshmipuram, Bengaluru - 560 086, Karnataka
+91 9538136111 +91 9483561234
[illegible]ecadez@gmail.com
www.mecadez.com

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Executive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P 3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wall |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev V |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 5 |
| **Casting Date** | 23-Dec-2022 |
| **Tested Date** | 30-Dec-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.49 | 150*150*150 | 2515.56 | 316.00 | 0.0225 | 14.04 | | |
| 2 | 20 | 7 | 8.51 | 150*150*150 | 2521.48 | 306.00 | 0.0225 | 13.60 | 13.85 | |
| 3 | 20 | 7 | 8.84 | 150*150*150 | 2619.26 | 313.00 | 0.0225 | 13.91 | | |
| 4 | 20 | 7 | 8.73 | 150*150*150 | 2586.67 | 312.00 | 0.0225 | 13.87 | | 13.90 |
| 5 | 20 | 7 | 9.07 | 150*150*150 | 2687.41 | 311.00 | 0.0225 | 13.82 | 13.94 | |
| 6 | 20 | 7 | 9.23 | 150*150*150 | 2734.81 | 318.00 | 0.0225 | 14.13 | | |

**Results** 7-days Compressive strength of Concrete is 13.90 N/mm2

**Comments:** 7 days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exceecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wall |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 6 |
| **Casting Date** | 23-Dec-2022 |
| **Tested Date** | 30-Dec-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.59 | 150*150*150 | 2545.19 | 318.00 | 0.0225 | 14.13 | 13.94 | 13.99 |
| 2 | 20 | 7 | 8.61 | 150*150*150 | 2551.11 | 308.00 | 0.0225 | 13.69 | | |
| 3 | 20 | 7 | 8.94 | 150*150*150 | 2648.89 | 315.00 | 0.0225 | 14.00 | | |
| 4 | 20 | 7 | 8.83 | 150*150*150 | 2616.30 | 314.00 | 0.0225 | 13.96 | 14.03 | |
| 5 | 20 | 7 | 9.17 | 150*150*150 | 2717.04 | 313.00 | 0.0225 | 13.91 | | |
| 6 | 20 | 7 | 9.33 | 150*150*150 | 2764.44 | 320.00 | 0.0225 | 14.22 | | |

**Results**: 7-days Compressive strength of Concrete is 13.99 N/mm2

**Comments:** 7-days Compressive strength of M20 Concrete should not be less than 13 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wall |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 7 |
| **Casting Date** | 23-Dec-2022 |
| **Tested Date** | 30-Dec-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 7 | 8.68 | 150*150*150 | 2571.85 | 320.00 | 0.0225 | 14.22 | 14.03 | 14.07 |
| 2 | 20 | 7 | 8.70 | 150*150*150 | 2577.78 | 310.00 | 0.0225 | 13.78 | | |
| 3 | 20 | 7 | 9.03 | 150*150*150 | 2675.56 | 317.00 | 0.0225 | 14.09 | | |
| 4 | 20 | 7 | 8.92 | 150*150*150 | 2642.96 | 316.00 | 0.0225 | 14.04 | 14.12 | |
| 5 | 20 | 7 | 9.26 | 150*150*150 | 2743.70 | 315.00 | 0.0225 | 14.00 | | |
| 6 | 20 | 7 | 9.42 | 150*150*150 | 2791.11 | 322.00 | 0.0225 | 14.31 | | |

**Results**: 7 days Compressive strength of Concrete is 14.07 N/mm2

**Comments:** 7 days Compressive strength of M20 Concrete should not be less than 13 N/mm2

Note:

i. The results indicated above are based on the tests carried out on the sample at site

ii. The results relate only to the items tested

iii. This test report should not be reproduced except in full, without written approval of this laboratory

iv. Any query regarding the report must be reported immediately

**Mecadez Core Technology Private Limited**

Authorised Signature

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exeecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wall |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 1 |
| **Casting Date** | 23-Dec-2022 |
| **Tested Date** | 20-Jan-2023 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.97 | 150*150*150 | 2657.78 | 455.00 | 0.0225 | 20.22 | 20.25 | 20.23 |
| 2 | 20 | 28 | 8.46 | 150*150*150 | 2506.67 | 450.00 | 0.0225 | 20.00 | | |
| 3 | 20 | 28 | 8.13 | 150*150*150 | 2408.89 | 462.00 | 0.0225 | 20.53 | | |
| 4 | 20 | 28 | 8.13 | 150*150*150 | 2408.89 | 452.00 | 0.0225 | 20.09 | 20.21 | |
| 5 | 20 | 28 | 8.46 | 150*150*150 | 2506.67 | 450.00 | 0.0225 | 20.00 | | |
| 6 | 20 | 28 | 8.49 | 150*150*150 | 2515.56 | 462.00 | 0.0225 | 20.53 | | |

**Results:** 28-days Compressive strength of Concrete is 20.23 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Exceeutive Engineer Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Wall
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 2
**Casting Date** 23-Dec-2022
**Tested Date** 20-Jan-2023

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.57 | 150*150*150 | 2539.26 | 468.00 | 0.0225 | 20.80 | 20.41 | 20.33 |
| 2 | 20 | 28 | 8.59 | 150*150*150 | 2545.19 | 457.00 | 0.0225 | 20.31 | | |
| 3 | 20 | 28 | 8.16 | 150*150*150 | 2417.78 | 453.00 | 0.0225 | 20.13 | | |
| 4 | 20 | 28 | 8.54 | 150*150*150 | 2530.37 | 458.00 | 0.0225 | 20.36 | 20.24 | |
| 5 | 20 | 28 | 8.95 | 150*150*150 | 2651.85 | 451.00 | 0.0225 | 20.04 | | |
| 6 | 20 | 28 | 8.54 | 150*150*150 | 2530.37 | 457.00 | 0.0225 | 20.31 | | |

**Results**: 28-days Compressive strength of Concrete is 20.33 N/mm2
**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer –Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wall |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)–1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 3 |
| **Casting Date** | 23-Dec-2022 |
| **Tested Date** | 20-Jan-2023 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.66 | 150*150*150 | 2565.93 | 470.00 | 0.0225 | 20.89 | 20.50 | 20.41 |
| 2 | 20 | 28 | 8.68 | 150*150*150 | 2571.85 | 459.00 | 0.0225 | 20.40 | | |
| 3 | 20 | 28 | 8.25 | 150*150*150 | 2444.44 | 455.00 | 0.0225 | 20.22 | | |
| 4 | 20 | 28 | 8.63 | 150*150*150 | 2557.04 | 460.00 | 0.0225 | 20.44 | 20.33 | |
| 5 | 20 | 28 | 9.04 | 150*150*150 | 2678.52 | 453.00 | 0.0225 | 20.13 | | |
| 6 | 20 | 28 | 8.63 | 150*150*150 | 2557.04 | 459.00 | 0.0225 | 20.40 | | |

**Results**: 28 days Compressive strength of Concrete is 20.41 N/mm2

**Comments:** 28 days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested
iii. This test report should not be reproduced except in full, without written approval of this laboratory
iv. Any query regarding the report must be reported immediately

**For Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Executive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wall |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 4 |
| **Casting Date** | 23-Dec-2022 |
| **Tested Date** | 20-Jan-2023 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.76 | 150*150*150 | 2595.56 | 472.00 | 0.0225 | 20.98 | 20.59 | 20.50 |
| 2 | 20 | 28 | 8.78 | 150*150*150 | 2601.48 | 461.00 | 0.0225 | 20.49 | | |
| 3 | 20 | 28 | 8.35 | 150*150*150 | 2474.07 | 457.00 | 0.0225 | 20.31 | | |
| 4 | 20 | 28 | 8.73 | 150*150*150 | 2586.67 | 462.00 | 0.0225 | 20.53 | 20.41 | |
| 5 | 20 | 28 | 9.14 | 150*150*150 | 2708.15 | 455.00 | 0.0225 | 20.22 | | |
| 6 | 20 | 28 | 8.73 | 150*150*150 | 2586.67 | 461.00 | 0.0225 | 20.49 | | |

**Results**: 28-days Compressive strength of Concrete is 20.50 N/mm2

**Comments:** 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO 06 (CONSISTS OF 14 WORKS) |
| **Client** | Exeecutive Engineer Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wall |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 5 |
| **Casting Date** | 23-Dec-2022 |
| **Tested Date** | 20 Jan 2023 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength (N/mm2) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.85 | 150*150*150 | 2622.22 | 474.00 | 0.0225 | 21.07 | | |
| 2 | 20 | 28 | 8.87 | 150*150*150 | 2628.15 | 463.00 | 0.0225 | 20.58 | 20.68 | |
| 3 | 20 | 28 | 8.44 | 150*150*150 | 2500.74 | 459.00 | 0.0225 | 20.40 | | 20.59 |
| 4 | 20 | 28 | 8.82 | 150*150*150 | 2613.33 | 464.00 | 0.0225 | 20.62 | | |
| 5 | 20 | 28 | 9.23 | 150*150*150 | 2734.81 | 457.00 | 0.0225 | 20.31 | 20.50 | |
| 6 | 20 | 28 | 8.82 | 150*150*150 | 2613.33 | 463.00 | 0.0225 | 20.58 | | |

**Results:** 28 days Compressive strength of Concrete is 20.59 N/mm2

**Comments:** 28 days Compressive strength of M20 Concrete should not be less than 20 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Exeecutive Engineer Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M20 Concrete For Drian Wall
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 6
**Casting Date** 23-Dec-2022
**Tested Date** 20-Jan-2023

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 8.95 | 150*150*150 | 2651.85 | 476.00 | 0.0225 | 21.16 | 20.77 | 20.68 |
| 2 | 20 | 28 | 8.97 | 150*150*150 | 2657.78 | 465.00 | 0.0225 | 20.67 | | |
| 3 | 20 | 28 | 8.54 | 150*150*150 | 2530.37 | 461.00 | 0.0225 | 20.49 | | |
| 4 | 20 | 28 | 8.92 | 150*150*150 | 2642.96 | 466.00 | 0.0225 | 20.71 | 20.59 | |
| 5 | 20 | 28 | 9.33 | 150*150*150 | 2764.44 | 459.00 | 0.0225 | 20.40 | | |
| 6 | 20 | 28 | 8.92 | 150*150*150 | 2642.96 | 465.00 | 0.0225 | 20.67 | | |

**Results**: 28-days Compressive strength of Concrete is 20.68 N/mm2
**Comments**: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exceeutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M20 Concrete For Drian Wall |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 7 |
| **Casting Date** | 23-Dec-2022 |
| **Tested Date** | 20 Jan 2023 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20 | 28 | 9.04 | 150*150*150 | 2678.52 | 478.00 | 0.0225 | 21.24 | 20.86 | 20.77 |
| 2 | 20 | 28 | 9.06 | 150*150*150 | 2684.44 | 467.00 | 0.0225 | 20.76 | | |
| 3 | 20 | 28 | 8.63 | 150*150*150 | 2557.04 | 463.00 | 0.0225 | 20.58 | | |
| 4 | 20 | 28 | 9.01 | 150*150*150 | 2669.63 | 468.00 | 0.0225 | 20.80 | 20.68 | |
| 5 | 20 | 28 | 9.42 | 150*150*150 | 2791.11 | 461.00 | 0.0225 | 20.49 | | |
| 6 | 20 | 28 | 9.01 | 150*150*150 | 2669.63 | 467.00 | 0.0225 | 20.76 | | |

**Results**: 28-days Compressive strength of Concrete is 20.77 N/mm2

**Comments**: 28-days Compressive strength of M20 Concrete should not be less than 20 N/mm2

Note:

i. The results indicated above are based on the tests carried out on the sample at site.

ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technology Private Limited**

**Authorised Signature**

AEE (VRP) SD

## Mecadez Core Technologies Private Limited

## Project Management Services

### Summary of Frequencies of Field Tests and Lab Tests Conducted

**Name of the work:** **PACKAGE NO.06 (CONSISTS OF 14 WORKS)**

**Job No:** **MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR**

**Contractor** **M/s. SMLP Asphalts Prop. Sri B B Umesha,**

| Sl. No | Particulars of the Tests | 100mm Precast Slab Core Cut | | | |
|---|---|---|---|---|---|
| | | Quantity Sqm | Frequency of Tests | Tests Required | Tests Carried Out |
| | **Core Cutting** | | | | |
| 1 | Compressive strength test | 1755.90 | One Test Per Source of supply | 1 | 1 |

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

consultant

contractor

ASSISTANT ENGINEER

ASSISTANT EXE ENGINEER

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

## Test Report
## Concrete Compressive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exceeutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | 100mm Precast Slab Core Cut |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Test Location** | Laboratory |
| **Sample No** | 1 |
| **Tested Date** | 6-Jul-2022 |

| Sl. No. | Dia of Core D (mm) | Height of Core H (mm) | Core Wt (Kg) | Density of Core (Kg/m³) | H/D | Correction Factor (Based on H/D) | Failure Load (KN) | Core Strength (N/mm²) | Correction Factor for the dia. (Strength of the Core X 1.08) | Corrected Cylinder Compressive Strength (N/mm²) | Equivalent Cube Compressive Strength (N/mm²) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 100.00 | 99.48 | 0.62 | 793.216 | 0.9948 | 0.89 | 132.314 | 16.84 | 18.19 | 20.40 | 25.50 |
| 2 | 100.00 | 98.24 | 0.61 | 790.272 | 0.9824 | 0.89 | 131.53 | 16.74 | 18.08 | 20.31 | 25.39 |
| 3 | 100.00 | 98.54 | 0.6 | 774.951 | 0.9854 | 0.89 | 132.55 | 16.87 | 18.22 | 20.46 | 25.58 |

**Results**: Compressive strength of 100mm thick Precast Slab is 25.49 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technologies Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Mecadez Core Technologies Private Limited

## Project Management Consultancy Services

## Summary of Frequencies of Field Tests and Lab Tests Conducted

**Name of the work:** **PACKAGAE NO.06 (CONSISTS OF 14 WORKS)**

**Job No:** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR

**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,

| Sl. No | Particulars of the Tests | T.M.T Steel of Fe500 Grade | | | |
|---|---|---|---|---|---|
| | | Quantity in Tonne | Frequency of Tests | Tests Required | Tests Carried Out |
| I | Steel | | | | |
| 1 | Tensile strength test | 51.44 | 1 sample per source | 1 | 1 |

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

CONSULTANTS

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT ENGINEER

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

# Test Report
## Steel

**Project Name** PACKAGAE NO.06 (CONSISTS OF 14 WORKS)
**Client** Excecutive Engineer - Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** T.M.T Steel of Fe500 Grade
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** T.M.T Steel of Fe500 Grade
**Tested Date** 16-Sep-2022

| Sl. No. | Dia in mm | Weight in Kg/mtr | Average Weight Kg/mtr | Ultimate Load in KN | Ultimate Tensile stress in N/mm$^2$ | Average Ultimate Tensile Stress N/mm$^2$ | Elongation in (%) | Bending and Rebending |
|---|---|---|---|---|---|---|---|---|
| 1 | 8 | 0.395 | 0.395 | 29.32 | 583.00 | 584.50 | 18 | OK |
| | 8 | 0.395 | | 29.47 | 586.00 | | | |
| 1 | 10 | 0.617 | 1.395 | 46.04 | 586.00 | 587.00 | 18 | OK |
| | 10 | 0.617 | | 46.20 | 588.00 | | | |

**NOTE:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**For Mecadez Core Technologies Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Mecadez Core Technologies Private Limited

**Project Management Consultancy Services**

## Summary of Frequencies of Field Tests and Lab Tests Conducted

**PACKAGE NO.06 (CONSISTS OF 14 WORKS)**

**Name of the work:**

**Job No:** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR

**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,

| Sl. No | Particulars of the Tests | M15 Coping Concrete | | | |
|---|---|---|---|---|---|
| | | Quantity Cum | Frequency of Tests | Tests Required | Tests Carried Out |
| IV | Concrete | | | | |
| 1 | Compressive strength test | 31.87 | 1 to 5cum=1 sample<br>6 to 15 cum=2 sample<br>16 to 30cum=3 smaple<br>31 to 50cum= 4 sample<br>51cum and above= one additonal sample for every additional 50 cum or part therof | 4 | 4 |
| | 7-days | | | | |
| | 28-days | | | | |

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

Consultant

Contractor

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

# Mecadez Core Technologies Private Limited

**Project Management Consultancy Services**

## Summary of Frequencies of Field Tests and Lab Tests Conducted

**PACKAGE NO.06 (CONSISTS OF 14 WORKS)**

**Name of the work:**

**Job No:** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR

**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,

| Sl. No | Particulars of the Tests | M15 Coping Concrete | | | |
|---|---|---|---|---|---|
| | | Quantity Cum | Frequency of Tests | Tests Required | Tests Carried Out |
| IV | Concrete | | | | |
| 1 | Compressive strength test | 31.87 | 1 to 5cum=1 sample<br>6 to 15 cum=2 sample<br>16 to 30cum=3 smaple<br>31 to 50cum= 4 sample<br>51cum and above= one additonal sample for every additional 50 cum or part therof | 4 | 4 |
| | 7-days | | | | |
| | 28-days | | | | |

Note: Frequency of tests as per Specifications MORT&H, V Revision, Section 900.

Consultant

Contractor

ASSISTANT ENGINEER

ASSISTANT ENGINEER

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

## Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M15 Coping Concrete |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Sample No** | 1 |
| **Casting Date** | 28-Sep-2022 |
| **Tested Date** | 5-Oct-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15 | 7 | 8.46 | 150*150*150 | 2506.67 | 225.00 | 0.0225 | 10.00 | 9.96 | 9.95 |
| 2 | 15 | 7 | 8.13 | 150*150*150 | 2408.89 | 221.00 | 0.0225 | 9.82 | | |
| 3 | 15 | 7 | 8.79 | 150*150*150 | 2604.44 | 226.00 | 0.0225 | 10.04 | | |
| 4 | 15 | 7 | 8.16 | 150*150*150 | 2417.78 | 220.00 | 0.0225 | 9.78 | 9.94 | |
| 5 | 15 | 7 | 8.49 | 150*150*150 | 2515.56 | 223.00 | 0.0225 | 9.91 | | |
| 6 | 15 | 7 | 8.34 | 150*150*150 | 2471.11 | 228.00 | 0.0225 | 10.13 | | |

**Results**: 7-days Compressive strength of Concrete is 9.95 N/mm2
**Comments**: 7 days Compressive strength of M15 Grade Concrete should not be less than 9.75 N/mm2

Note:
i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technologies Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| Project Name | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| Client | Excecutive Engineer -Byatarayanapura Division |
| Job No | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| Mix Type | M15 Coping Concrete |
| Contractor | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| Test Method | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| Location | Laboratory |
| Material | Concrete |
| Sample No | 2 |
| Casting Date | 28-Sep-2022 |
| Tested Date | 5-Oct-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15 | 7 | 8.95 | 150*150*150 | 2651.85 | 226.00 | 0.0225 | 10.04 | 9.93 | 9.93 |
| 2 | 15 | 7 | 8.75 | 150*150*150 | 2592.59 | 224.00 | 0.0225 | 9.96 | | |
| 3 | 15 | 7 | 8.26 | 150*150*150 | 2447.41 | 220.00 | 0.0225 | 9.78 | | |
| 4 | 15 | 7 | 8.15 | 150*150*150 | 2414.81 | 228.00 | 0.0225 | 10.13 | 9.94 | |
| 5 | 15 | 7 | 8.35 | 150*150*150 | 2474.07 | 223.00 | 0.0225 | 9.91 | | |
| 6 | 15 | 7 | 8.49 | 150*150*150 | 2515.56 | 220.00 | 0.0225 | 9.78 | | |

**Results**: 7-days Compressive strength of Concrete is 9.93 N/mm2
**Comments**: 7-days Compressive strength of M15 Grade Concrete should not be less than 9.75 N/mm2

Note:
i The results indicated above are based on the tests carried out on the sample at site.
ii The results relate only to the items tested.
iii This test report should not be reproduced except in full, without written approval of this laboratory.
iv Any query regarding the report must be reported immediately.

**Mecadez Core Technologies Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Exeecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M15 Coping Concrete |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 3 |
| **Casting Date** | 28-Sep-2022 |
| **Tested Date** | 5-Oct-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15 | 7 | 9.04 | 150*150*150 | 2678.52 | 228.00 | 0.0225 | 10.13 | 10.01 | 10.02 |
| 2 | 15 | 7 | 8.84 | 150*150*150 | 2619.26 | 226.00 | 0.0225 | 10.04 | | |
| 3 | 15 | 7 | 8.35 | 150*150*150 | 2474.07 | 222.00 | 0.0225 | 9.87 | | |
| 4 | 15 | 7 | 8.24 | 150*150*150 | 2441.48 | 230.00 | 0.0225 | 10.22 | 10.03 | |
| 5 | 15 | 7 | 8.44 | 150*150*150 | 2500.74 | 225.00 | 0.0225 | 10.00 | | |
| 6 | 15 | 7 | 8.58 | 150*150*150 | 2542.22 | 222.00 | 0.0225 | 9.87 | | |

**Results**: 7-days Compressive strength of Concrete is 10.02 N/mm2
**Comments**: 7-days Compressive strength of M15 Grade Concrete should not be less than 9.75 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested
iii. This test report should not be reproduced except in full, without written approval of this laboratory
iv. Any query regarding the report must be reported immediately

**Mecadez Core Technologies Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report

## Concrete Compresive strength

| | |
|---|---|
| **Project Name** | PACKAGE NO.06 (CONSISTS OF 14 WORKS) |
| **Client** | Excecutive Engineer -Byatarayanapura Division |
| **Job No** | MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR |
| **Mix Type** | M15 Coping Concrete |
| **Contractor** | M/s. SMLP Asphalts Prop. Sri B B Umesha, |
| **Test Method** | IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V. |
| **Location** | Laboratory |
| **Material** | Concrete |
| **Sample No** | 4 |
| **Casting Date** | 28-Sep-2022 |
| **Tested Date** | 5-Oct-2022 |

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15 | 7 | 9.14 | 150*150*150 | 2708.15 | 230.00 | 0.0225 | 10.22 | 10.10 | 10.11 |
| 2 | 15 | 7 | 8.94 | 150*150*150 | 2648.89 | 228.00 | 0.0225 | 10.13 | | |
| 3 | 15 | 7 | 8.45 | 150*150*150 | 2503.70 | 224.00 | 0.0225 | 9.96 | | |
| 4 | 15 | 7 | 8.34 | 150*150*150 | 2471.11 | 232.00 | 0.0225 | 10.31 | 10.12 | |
| 5 | 15 | 7 | 8.54 | 150*150*150 | 2530.37 | 227.00 | 0.0225 | 10.09 | | |
| 6 | 15 | 7 | 8.68 | 150*150*150 | 2571.85 | 224.00 | 0.0225 | 9.96 | | |

**Results**: 7-days Compressive strength of Concrete is 10.11 N/mm2
**Comments**: 7-days Compressive strength of M15 Grade Concrete should not be less than 9.75 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technologies Private Limited**

**Authorised Signature**

AEE (VRP) SD

# Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Excecutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P-3877/2022-23/QR
**Mix Type** M15 Coping Concrete
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6) 1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 1
**Casting Date** 28-Sep-2022
**Tested Date** 26-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density (kg/m$^3$) | Max. Load (KN) | Area (m$^2$) | Compressive Strength (N/mm$^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15 | 28 | 8.59 | 150*150*150 | 2545.19 | 349.00 | 0.0225 | 15.51 | 15.51 | 15.64 |
| 2 | 15 | 28 | 8.75 | 150*150*150 | 2592.59 | 350.00 | 0.0225 | 15.56 | | |
| 3 | 15 | 28 | 8.26 | 150*150*150 | 2447.41 | 348.00 | 0.0225 | 15.47 | | |
| 4 | 15 | 28 | 8.40 | 150*150*150 | 2488.89 | 358.00 | 0.0225 | 15.91 | 15.76 | |
| 5 | 15 | 28 | 8.24 | 150*150*150 | 2441.48 | 347.00 | 0.0225 | 15.42 | | |
| 6 | 15 | 28 | 8.26 | 150*150*150 | 2447.41 | 359.00 | 0.0225 | 15.96 | | |

**Results**: 28-days Compressive strength of Concrete is 15.64 N/mm2
**Comments:** 28 days Compressive strength of M15 Grade Concrete should not be less than 15 N/mm2

Note:
i The results indicated above are based on the tests carried out on the sample at site
ii The results relate only to the items tested
iii.This test report should not be reproduced except in full, without written approval of this laboratory.
iv.Any query regarding the report must be reported immediately

**Mecadez Core Technologies Private Limited**

**Authorised Signature**

AEE (VRP) SD

## Test Report
## Concrete Compresive strength

**Project Name** PACKAGE NO.06 (CONSISTS OF 14 WORKS)
**Client** Exceeutive Engineer -Byatarayanapura Division
**Job No** MCTPL/BBMP/EE/BTY/PMC/P 3877/2022-23/QR
**Mix Type** M15 Coping Concrete
**Contractor** M/s. SMLP Asphalts Prop. Sri B B Umesha,
**Test Method** IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
**Location** Laboratory
**Material** Concrete
**Sample No** 2
**Casting Date** 28-Sep-2022
**Tested Date** 26-Oct-2022

| Cube | Concrete Grade | Age at Test (Days) | Weight (kg) | Dimension (LxWxH) | Density ($kg/m^3$) | Max. Load (KN) | Area ($m^2$) | Compressive Strength ($N/mm^2$) | Avg. Sample Strength | Avg. Strength |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15 | 28 | 8.62 | 150*150*150 | 2554.07 | 352.00 | 0.0225 | 15.64 | 15.78 | 15.69 |
| 2 | 15 | 28 | 8.15 | 150*150*150 | 2414.81 | 354.00 | 0.0225 | 15.73 | | |
| 3 | 15 | 28 | 8.49 | 150*150*150 | 2515.56 | 359.00 | 0.0225 | 15.96 | | |
| 4 | 15 | 28 | 8.57 | 150*150*150 | 2539.26 | 350.00 | 0.0225 | 15.56 | 15.60 | |
| 5 | 15 | 28 | 8.26 | 150*150*150 | 2447.41 | 348.00 | 0.0225 | 15.47 | | |
| 6 | 15 | 28 | 8.96 | 150*150*150 | 2654.81 | 355.00 | 0.0225 | 15.78 | | |

**Results**: 28 days Compressive strength of Concrete is 15.69 N/mm2
**Comments:** 28 days Compressive strength of M15Grade Concrete should not be less than 15 N/mm2

**Note:**

i. The results indicated above are based on the tests carried out on the sample at site
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

**Mecadez Core Technologies Private Limited**

**Authorised Signature**

AEE (VRP) SD